

GENERAL IN Building Type: Phase of Cons STATEMENT This certificate comply with Ti certificate app The documental Name M Company 7 Address 5: City/State/Zip 5: The Principal I construction d any other calc	ead Ave. Live FORMATION struction: of COMPLIAN e of compliance litle 24, Parts 1 a dies only to a Butation author her tion Author fangalore Suresh litle 24 Online 31 Natalino Circle lacramento, CA 958. Designer hereby locuments is contait in submittuirements contait MECH.	Nonresidential Relocatable - indicate New Construction CE ists the building features and 6 of the California Co ilding using the performa eby certifies that the doo sistent with the other co ed with this permit applic ned in sections 110, 116	☐ High-F☐ specifice □ Addition s and specifice bede of Regulate ance compliant cumentation is sed building de propriate form cation. The pro- 3 through 118,	lise Residential c climate zone in ations needed to ions. This ce approach. accurate and consign representates and worksheeposed building and 140 throug	Date 10/27/2011 Phone 510-793-265 ad in this set of ets, with the specificat has been designed to the Business and Proof the Business and	itions, and with o meet the ene t 6. Please ofessions Code to the State of
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~	welope Desig	ner				
	.R.Govinda Reo. S.I			Signature		
Company 8	l.R.Govinda Rao S.I				Date	
Address 8	64 Bandol Way				License #	
City/State/Zip _S ,	an Ramon, CA 9438	2			Phone 925-833-978	M
Principal Me	echanical Des	gner				
Name _{Ki}	uppe Srnivas P.E.			Signature		
Company _A	jmani & Pamidi Inc.				Date	
Address ₁₀	O1 California Street	Suite 2025			License #	
City/State/Zip S	an Francisco, CA. 9	••••••••••••••••••••••••••••••••••••••			Phone 415-305-934	14
Principal Ligi	hting Designer					
Name S	atish Pamidi P.E.			Signature		
Name and a second	jmani & Pamidi inc.			.	Date	
Natoleana	01 California Street	Suite 2025			License #	
NA -2004-14-179-1-	an Francisco, CA. 9				Phone 415-305-934	
. 68		COMPLIANCE & WORK	SHEETS (cher	k box if worksh		· ·
Z ENV-10	***************************************	pliance. Required on plans.	☑ MECH-1		Compliance Required on	ı plans.
☐ LTG-1C	Certificate of Com	pliance. Required on plans.	☑ MECH-2	IC Air/Water Si	de/Service Hot Water & Po	
I LTG-2C	Lighting Controls		Ø MECH3		Ventilation and Reheat.	
□ LTG-3C Energy/Pro 5.1 by	Indoor Lighting Po				Equipment Details. 10: 8ld: 0	Page jo

ERF-1C
Date 10/27/2011

g Ratio
23.8 %
16.4 %
26.8 %
4.3 %
11.4 %
0.2%
46.1 B1
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ZONE INFORMATION	ON							
System Name	Zone Name	Occupancy Type	Floor Area (sqft.)	Inst. LPD (W/sf) ¹	Ctrl. Credits (W/sf) ²	Allowe Area (W/sf) ³	ed LPD Tailored (W/sf) ⁴	Pro- Load (W/s
AC-D-4	Zone -4	Classroom, Lecture, Training	714	0.756	,	,		<u> </u>
	Zone- 4A	Corridor/Restroom/Support	440	0.341	0.085			
CU/ACC-D-2	Zone-7	Lounge, Recreation	213	0.845				
AC-D-5	Zone-5	Classroom, Lecture, Training	714	0.756				
	Zone- 5A	Corridor/Restroom/Support	242	0.744	0.130			
	Zone -5B	Corridor/Restroom/Support	314	1.433				
AC-D-2	Zone-2	Convention/Conference/Mee	1,077	0.836				
	Zone -2A	Corridor/Restroom/Support	314	1.433				
	Zone- 2B	Corridor/Restroom/Support	586	0.512	0.105			
AC-D-1	Zone-1	Classroom, Lecture, Training	1,034	0.870				
	Zone-1A	Electrical, Mechanical Room	40	1.500				
AC-D-3	Zone -3	Classroom, Lecture, Training	714	0.756				
CU/ACC-D-1	Zone 6	Lounge, Recreation	236	0.890				
CU/ACC-D-3	Zone 8	Lounge, Recreation	213	0.845				
CU/ACC-D-4	Zone 9	Lounge, Recreation	236	0.890				
EXCEPTIONAL CO	sterisk, see LTG-1-C by others) NDITIONS COMPLIAN agency should pay special a	2. See LTG-2C 3. See LTG-3C (by others) CE CHECKLIST attention to the items specified cation to be used with the performance.	l in this cl	e LTG-4C necklist. Th	ese items	require sp	special docume ecial written	
determines the adequace special justification and	cy of the justifications, and I documentation submitted.	may reject a building or design	that othe					he
· · · · · · · · · · · · · · · · · · ·		entilation per Standards Section	121.					
	North/East/South Display Peri		nation 101					
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The HVAC System AC-D-		•	121.					
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ZONE INFORMATION	<u>\</u>	<u> </u>	T =:		0.1	A 11	. J.I.B.B.	_
			Floor Area	Inst. LPD	Ctrl. Credits	Area	ed LPD Tailored	Prod Load
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Oystem Name	Zone ryanie	Occupancy Type	(Sqrt.)	(44751)	(**/31/	(44751)	(44751)	(4476
	 							
	+				<u> </u>			
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Notes: 1. See LTG-10	<u> </u>	 2. See LTG-2C	C 4.5a	LTG-4C				
(items marked with aste	erisk, see LTG-1-C by others)	(by others)	4.00	6 E 1 G 40	Items al	pove require s	special docume	entation
	DITIONS COMPLIANCE							
The local enforcement agreement agreement	ency should pay special attentation, and special verificat	ention to the items specifie	d in this c	hecklist. Ti	nese items The least a	require spe	ecial written	
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determines the adequacy special justification and dather HVAC System CU/ACC The HVAC System CU/ACC The HVAC System Trane You The Roof R-38 Roof Attic Roof Roof Roof Roof Roof Roof Roof Roo	C-D-3 includes Demand Control C-D-4 includes Demand Control C-D-4 includes Demand Control C-D-4 includes an Economi C-D-4 includes an Economi C-D-4 includes an Economi C-D-4 includes Demand Control C-D-4 includes an Economi C-D-4 includes an	of Ventilation per Standards Sizer. This system has a cooling of the cooling of t	ection 121 ng output < led by the	75,000 Btu Cool Roof F	Rating Coun	cil in accord	dance with Se	

AND	TIFICATE OF CO FIELD INSPECT				CH	ECKLI	ST	(1	⊃art 1 d	of 3)		ENV-	-1C
Project Na HCC B												Date 10/27/2	201
Project A		mara				Climate Zo	ne 12		Total Cond	. Floor <i>f</i> 987	Area Ad	dition Floo <i>n/a</i>	r Are
	AL INFORMATION	more					12		7,0	707		11/a	
Building	_	Nonres	sident	ial		☐ High	n-Rise Res	sidential	п н	otel/Mo	tel Gues	st Room	
	ools (Public School)	Reloca Blda.	ıtable	Public :	School	☑ C	onditioned	Spaces		□ Ui	nconditio	ned Spac	es
□ Sky	light Area for Large Enclos		= ≥ 80	00 ft ² (l	f check	ced include	the ENV-	4C with s	submittal)				
	f Construction:	· ·				□ Add				Iteratio	n		
A pproac	h of Compliance:	Compo	nent			☑ Ove	rall E nv elo	оре	□ Ui	ncondit	tioned (fi	le affidavi	t)
Front Or	ientation: N, E, S, W or in			90 deg									
		FIEL	D IN	SPEC		N ENER	GY CH	ECKLI	ST				
OPAQU	E SURFACE DETAILS				INSU	LATION					1		_
Tag/ID	Assembly Type	Area (ft²)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior R- Value	Exterior Furring ³	Interior R- Value	Interior Furring ³	Joint Appendix 4	Condition	Pass	Fail
1	Wall	217	(N)	0.069	R-2	21			4.3.	1-A6	New		Г
2	Roof	714	(N)	0.025	R-3	38			4.2.	1-A21	New		-
3	Slab	714	(N)	0.730	Nor.	ne e			4.4.	7-A1	New		[
4	Wall	26	<u> </u>	0.069	+	+			-	1-A6	New		
5	Slab	440	, ,	0.730		+				7-A1	New		[
6 7	Roof Wall	440 96	<u> </u>	0.025						1-A21 1-A6	New		
<u> </u>	Roof	213	<u> </u>	0.008	+				+	1-A0 1-A21	New		
	7.007	2,0	(/4)	0.020	1				7.2.	7,12,	1,,,,,,		
													┢
2. If Fail, t	structions in the Nonresidentia then describe on Page 2 of th TRATION SURFACE D	e Inspectio	on Che				U-Factor Source	Max (R)SHGC	SHCC Source	Overhang	Conditions Status		Eail
Tag/ID	Window Type			96	(/\)	0.330	NFRC	0.190		-	New		
!	Window			150	(F)	0.330	NFRC	0.190	_	-	New		
<u> </u>	Window			48	(W)	0.330	NFRC	0.190	+	<u> </u>	New		-
	Window			24	(N)	0.330	NFRC	0.190	+	1	New		
i	Window			24	(N)	0.330	NFRC	0.190	NFRC	Ø	New		Г
1	Window			24	(W)	0.330	NFRC	0.190	NFRC		New		
•	Window			48	(S)	0.330	NFRC	0.190		-	New		
<u> </u>	Window			48	(S)	0.330	NFRC	0.190	NFRC	-	New		
			+							<u> </u>			<u> </u>
			1										□

	TIFICATE OF C				CUI	-CVII	СТ	(F	² art	1 of	3)	E	ENV-	1C
AND Project N	FIELD INSPEC	JIION E	:NE	KGY	СПІ	ECKLI	<u>51</u>					D	ate	
HĈC E	Bldg. D												0/27/2	
Project A	\ddress A <i>rrowhead Ave. Li</i> v	/ermore				Climate Zo	ne 12		Total C	ond. Flo 7,08 2		a Additi	on Floor <i>n/a</i>	Area
	AL INFORMATION	remore					12			7,00			II/a	
Building		✓ Nonres	sident	ial		☐ Higl	n-Rise Res	sidential		Hote	/Motel	Guest F	Room	
	nools (Public School)		table	Public 9	School	<u>~</u>	onditioned				Unco	nditione	d Spac	es
	light Area for Large End	Blag.	> 90	∩∩ (+ 2 /#	f chack			•	ubmitts			- Indicionic	и орао	
	of Construction:	✓ New C			CHECK	□ Add		40 WILLI S		Alter	ation			
	ch of Compliance:	□ Compo		CHOTT			rall Envelo	nne				ned (file a	affidavit	1)
	rientation: N, E, S, W or			90 dea	1	L 0	Tall Lilver	эрс		Once	mailion	ica (ilic i	amaavii	.,
1 10111 0	110 mail on: 14, E, O, 44 Or				TION	JENER	GY CH	ECKI I	ST.					
OPAQL	JE SURFACE DETAILS		<u> </u>	<u> </u>		LATION	<u> </u>	LOILLI	"					
		Area (ft²)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior R- Value	Exterior Furring ³	Interior R- Value	Interior Furring ³	Joint	ppendix 4	Condition Status	Pass	Fail²
Tag/ID	Assembly Type						шш	=>			-			
9	Slab	213	(N)	0.730						4.4.7-A	_	Vew		
10	Wall	217	(N)	0.069		_				4.3.1-A		Vew	-	
11	Roof	714	(N)	0.025		+			-	4.2.1-A	-+	Vew		
12 13	Slab Slab	714 150	(N) (N)	0.730 0.730		+			-	4.4.7-A 4.4.7-A		Vew Vew	+-	-
14	Roof	150	(N) (N)	0.730		_			-	4.4.7-A 4.2.1-A		vew Vew	+-	
15	Wall	30	(W)	0.069		+			-	4.3.1-A		Vew	+	-
16	Slab	56	(N)	0.730		+				4.4.7-A		Vew		
			, ,											
-	THEN DESCRIBE ON PAGE 2 OF TRATION SURFACE Fenestrat Type	E DETAILS	Π		Orientation W. E, S, W	Max U-Factor	U-Factor Source	Max (R)SHGC	A fail	T	Overhang	Conditions Status	Lass Pass	Fail²
9	Skylight			20	(N)	0.490	NFRC	0.330	NF	RC	□ \(\times_{\lambda} \)	ew		
10	Window			72	(S)	0.330	NFRC	0.190	NF			ew		
11	Window		_	24	(W)	0.330	NFRC	0.190	NF	_		ew		
12	Window		+	48	(W)	0.330	NFRC	0.190		_	_	ew		_
13	Window		-	24	(S)	0.330	NFRC	0.190				ew	-	
14	Window		+-	24	(W)	0.330	NFRC	0.190	NF			ew	 -	
			+		+					-				
			+		\dashv					_				
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						l					□ l			

	TIFICATE OF C FIELD INSPEC				СН	FCKLI	ST	(Part	1 0	of 3)		ENV	-1
Project N	lame	11014 L	-146	.n.a.ı	011	LUKLI	<u> </u>						Date	(0.0
HCC E					I	Climate Zo	ne		Total (Cond.	Floor A		10/27/ ition Flo	
	Arrowhead Ave. Live	ermore					12				87		n/a	
GENER	AL INFORMATION													
Building	Туре:	☑ Nonres			On honel	☐ Higl	n-Rise Re	sidential		Н	tel/Mo	tel Guest	Room	
☐ Sch	nools (Public School)	□ Bldg.	atable	Public	School	☑ C	onditione	d Spaces			□ Ur	ncondition	ied Spa	ice
☐ Sky	rlight Area for Large Encl	osed Space	e ≥ 80	000 ft 2 (l	f check	ed include	the ENV	-4C with	submit	tal)				
Phase o	of Construction:	☑ New C	onstr	uction		□ Add	ition			Alt	eration	İ		
	<u> </u>	□ Compo				☑ Ove	rall Envel	оре		Ur	condit	oned (file	affida\	/it)
Front O	rientation: N, E, S, W or i			90 deg										
		FIEL	D IN	ISPEC		N ENER	GY CH	ECKL I	ST					
OPAQU	E SURFACE DETAILS	1		1	INSU	LATION	1							_
Tag/ID	Accombly Time	Area (ft²)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior R- Value	Exterior Furring³	Interior R- Value	Interior Furring ³		Joint Appendix 4	Condition	Pass	
17	Assembly Type Roof	56		0.025	R-3	_					1-A21	New	_	+
18	Slab	36		0.730	1	-				4.4.		New		_
19	Roof	36		0.025	R-3	18				4.2.	1-A21	New		Ť
20	Wall	140	(N)	0.069	R-2	21				4.3.1	1-A6	New		T
21	Slab	140	(N)	0.730	Non	ne				4.4.7	7-A1	New		T
22	Roof	140	(N)	0.025	R-3	88				4.2.1	1-A21	New		
23	Wall	294	(S)	0.069	R-2	!1				4.3.	1-A6	New		
24	Roof	1,077	(N)	0.025	R-3	8				4.2.1	1-A21	New		
														_
														丄
2. If Fail,	structions in the Nonresiden then describe on Page 2 of	the Inspectio	on Che	anual, pa ∍cklist Fo	ige 3-96 rm and	i. take approp	oriate actio	n to correc	t. A fai	l does	not me	et complia	ince.	
FENES	STRATION SURFACE	DE I AILS			Т								$\overline{}$	\top
Tag/li	Fenestratio D Type	on		Area (ft²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source	Max (R)SHGC	эвнѕ	Source	Overhang	Conditions Status	Pass	
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	structions in the Nonresiden													\perp

ENV-1C

AND	TIFICATE OF C FIELD INSPEC				СНЕ	ECKLI	ST	(Part	1 of 3)		ENV-	.1(
Project N HCC B												Date 10/27/ 2	20:
Project A	ddress					Climate Zo			Total	Cond. Floor A	Area Add	dition Floo	
	rrowhead Ave. Live	ermore					12			7,087		n/a	
		☑ Nonre:	eidant	ial		□ High	ı-Rise Re	eidantial		Hotel/Mo	tal Guaet	l Boom	
Building	туре.			Public S	School	<u>~</u>							
	,	Blag.		2			onditione	•			nconditio	neu spac	.es
	light Area for Large Encl				check			-4C with					
		☑ New C		uction		□ Add						(() -	
	<u> </u>	□ Compo			Τ	☑ Ove	rall E nv el	ope		Uncondit	ioned (file	e affidavi	t)
Front Or	ientation: N, E, S, W or i			90 deg	TION	LENIER	0)/ 01	FOKL	O.T.				
ODAOU	E SURFACE DETAILS	FIEL	או ט	SPEC		I ENER	GYCH	ECKL	51				
OFAGO	E SURFACE DETAILS				11430			I					Т
Tag/ID	Assembly Type	Area (ft²)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior R- Value	Exterior Furring ³	Interior R- Value	Interior Furring ³	Joint Appendix 4	Condition	Pass	Ş.: -L
25	Slab	1,077	(N)	0.730	Non	е				4.4.7-A1	New		<u> </u>
26	Wall	140	(S)	0.069	R-2	1				4.3.1-A6	New		[
27	Slab	140	. ,	0.730	<u> </u>	-				4.4.7-A1	New		1
28	Roof	140	(N)	0.025		8				4.2.1-A21	New		1
29	Slab	520	, , ,	0.730		+				4.4.7-A1	New		[
30	Roof	500	· ' <i>'</i>	0.025		+				4.2.1-A21	New		[
31	Wall	30	· ·	0.069						4.3.1-A6	New		1
32	Slab	36	(N)	0.730	Non	e				4.4.7-A1	New		'
												+-	+
	structions in the Nonresiden then describe on Page 2 of TRATION SURFACE						L					ance.	
Tag/ID	Fenestratio	on		Area (ft²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source	Max (R)SHGC	SHGC	Source Overhang	Conditions Status	Pass	21:5
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IYER & ASSOCIATES
Architecture Interiors Planning

REVISIONS

ISSUE FOR PERMIT 10-28-11

2011©IYER & ASSOCIATES

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(D)

TITLE-24 COMPLIANCE FORMS

BUILDING "D"

HINDU COMMUNITY and CULTURAL

1200 ARROWHEAD AVE. LIVERMORE, CA 94551

T-24.1

DATE 10/28/11 SCALE: NONE

DRAWN BY:

PROJECT: ARROWHEAD

	TIFICATE OF CO				CHI	ECKLI	ST	(Part	1 of :	3)	Е	NV-	1C
Project N	lame	. J. T. L	- · · · <u>-</u>		<u> </u>	<u> </u>	-					Dat 10.	e /27/2	201
Project A	ddress					Climate Zo			Total	Cond. Flo		Addition	ı Floor	
	Arrowhead Ave. Liver	more					12			7,087	,		n/a	
	AL INFORMATION	Nonre:	cidont	ial		☐ Hiah	ı-Rise Re	cidential		Hotal	/Motal C	auest Ro	om	
Building	туре. —	Dalaas		Public	School	_ _								
	nools (Public School)	Bldg.						d Spaces			Uncon	ditioned	Spac	es —
	rlight Area for Large Enclos	· ·			lf check			-4C with						
	of Construction:			uction		□ Addi						1 (51)		
	ch of Compliance:				1	☑ Ove	rall Envel	ope		Unco	nditione	d (file af	tidavit	:)
Front Or	rientation: N, E, S, W or in			90 deg	TION	LENER	OV 01	FOKL	ОТ.					
ODAGU	E CUREACE RETAIL O	FIEL	או ט	SPE		N ENER	GY CH	IECKLI	51	1				
OPAQU	E SURFACE DETAILS	T			INSU	LATION T	Ι	Г						1
Tag/ID	Assembly Type	Area (ft²)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior R- Value	Exterior Furring ³	Interior R- Value	Interior Furring ³	Joint Annandix A	-	Condition Status	Pass	Fail ²
33	Roof	36	(N)	0.028	5 R-3	8				4.2.1-A2	21 Ne	w		_
34	Slab	30	(N)	0.736	Non Non	e				4.4.7-A	l Ne	w		_
35	Roof	30	(N)	0.023	5 R-3	8				4.2.1-A2	21 Ne	w		Г
36	Wall	257	(S)	0.06	9 R-2	11				4.3.1-A) Ne	w		
37	Wall	172	(E)	0.069	9 R-2	1				4.3.1-A	S Ne	w		
38	Roof	1,034	(N)	0.023	5 R-3	8				4.2.1-A2	21 Ne	w		
39	Slab	1,034	(N)	0.730	Non	e				4.4.7-A	ı Ne	w		
40	Wall	80	(S)	0.06	9 R-2	11				4.3.1-A	S Ne	w		
	L	L												
	structions in the Nonresidentia then describe on Page 2 of th						riate actio	n to correc	t. A fai	l does no	t meet co	ompliance	€.	
FENES	TRATION SURFACE D	ETAILS	;											
Tag/ID	Fenestration Type	ı		Area (ft²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source	Max (R)SHGC	SHGC	Source	Over lang	Conditions Status	Pass	Eail
											-			_
											-			[
											<u> </u>			ו
														ם
	1		_								_			_
			1					I]			[
	structions in the Nonresidentia						iate action	to correc	t. Verif	/ buildina	plans if	necessar	٧.	
2. If Fail t	then describe on Page 2 of the		n Che		rm and t				t. Verify		plans if		y. age 11	of ·

AND	TIFICATE OF CO FIELD INSPECT				CHE	CKLI	ST	(rail	1 of 3)		NV-	. 1 (
Project N	lame				<u> </u>						Da		_
HCC B Project A					17	Climate Zo	20		LTotal (Cond. Floor A		0/27/2 on Floor	
	krrowhead Ave. Live	more			`	Jiiiiiate 20	12		lotar	7,087	Total Addition	n/a	<i>F</i> u
GENER	AL INFORMATION												
Building	Type: ☑					□ High	ı-Rise Re	sidential		Hotel/Mc	tel Guest R	oom	
☐ Sch	nools (Public School)	l Reloca Bldg.	ıtable	Public (School	☑ C	onditione	d Spaces		□ Ui	nconditioned	d Spac	es
□ Sky	rlight Area for Large Enclo		≥ 80	00 ft ² (l	f checke	ed include	the ENV	-4C with	submit	tal)			
hase o	of Construction:	New C	onstru	ıction		□ Add	ition			Alteration	n		
Approac	ch of Compliance:	l Compo	nent			☑ Ove	rall Envel	оре		Uncondit	tioned (file a	ffidavit	t)
Front O	rientation: N, E, S, W or in	Degrees:		90 deg									
		FIEL	D IN	SPEC		ENER	GY CH	ECKL	IST				
OPAQU	E SURFACE DETAILS	1	ı		INSUL	ATION			ı				_
T		Area (ft²)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior R- Value	Exterior Furring ³	Interior R- Value	Interior Furring ³	Joint Appendix 4	Condition	Pass	, ;
Tag/ID	Assembly Type Wall	50	(E)	0.069						4.3.1-A6	New		H
2	Roof	40		0.025						4.2.1-A21	New	 	
<u>-</u> :3	Slab	40	(N)	0.730	-					4.4.7-A1	New		r
14	Wall	2,607	(N)	0.069	R-21					4.3.1-A6	New		
1 5	Roof	714	(N)	0.025	R-38	}				4.2.1-A21	New		
16	Slab	714	(N)	0.730	None	,				4.4.7-A1	New		
1 7	Wall	232	(E)	0.069	R-21					4.3.1-A6	New		
18	Wall	120	(W)	0.069	R-21					4.3.1-A6	New		
												<u> </u>	
	<u> </u>												
	structions in the Nonresidenti then describe on Page 2 of the					ake approp	riate actio	n to correc	t. A fail	does not me	eet compliand	:е.	
FENES	TRATION SURFACE	ETAILS											
Tag/II	Fenestration Type	1		Area (ft²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source	Max (R)SHGC	SHGC	Source Overhang	Conditions Status	Pass	¢;
I ay/IL	.,,,,,												
r ag/iL													
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ray/iL				T									
rag/iL								•	1				L
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1 ag/L													
Tay/L													
	structions in the Nonresidenti	al Complia	nce Ma	anual re	age 3-96								
I. See In	structions in the Nonresidenti then describe on Page 2 of th	al Complia e Inspectio	nce Ma	anual, pa	age 3-96. m and ta	ke approp	riate action	n to correc	t. Verify	building pla	ns if necessa		

	lame Ildg. D					CKLI						ate 0/27/2) 1 -
	ddress				С	limate Zo			Total	Cond. Floor.		ion Floor	
	rrowhead Ave. Liver	more					12			7,087		n/a	
	AL INFORMATION	h I		! _ I			D' D-	- ! -! +! - !		11-4-1/64		-	
Building		Doloon		iai Public S			n-Rise Re				tel Guest f		
	iools (Public School)	Bldg.					onditione	<u> </u>			ncondition	ed Spac	es
	light Area for Large Enclos				checke			-4C with	submit				
	f Construction:			uction		□ Add				Alteratio			
• •	ch of Compliance:					☑ Ove	rall Envel	ope		Uncondi	tioned (file	affidavit	t)
ront O	rientation: N, E, S, W or in			90 deg	TION	ENIER	01/ 01	FOKL	<u> </u>				
DAOU	E SURFACE DETAILS	FIEL	או ט	SPEC	INSUL		GY CH	ECKL	SI				
PAGU	E SURFACE DETAILS			I	INSUL	ATION							
Tag/ID	Assembly Type	Area (ft²)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior R- Value	Exterior Furring ³	Interior R- Value	Interior Furring ³	Joint Appendix 4	Condition	Pass	Fail ²
9	Roof	236	(N)	0.025	R-38					4.2.1-A21	New		
0	Slab	236	(N)	0.730						4.4.7-A1	New		
1	Wall	96	(W)	0.069	R-21					4.3.1-A6	New		
2	Roof	1,476	(N)	0.025	R-38					4.2.1-A21	New		
3	Slab	213	(N)	0.730	None					4.4.7-A1	New		
4	Wall	176	(S)	0.069	R-21					4.3.1-A6	New		
5	Roof	236	(N)	0.025						4.2.1-A21	New		
6	Slab	236	(N)	0.730	None					4.4.7-A1	New	 	
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See In	I structions in the Nonresidentia	al Compliar	nce Ma	l enual na	ne 3-96								_
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Required Acceptance Tests				
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Fenestrations system. The designer is required				
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products and the number of systems. The NA				
Manual describes the test. Since this form will				
party to budget for the scope of work appropria		·		·
Enforcement Agency:				
Systems Acceptance. Before Occupancy Per	mit is granted for a n	ewly constructed bu	ilding or space or w	henever ne
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The ENV-2A form is not considered a complete				
poxes are checked and/or filled and signed. In				
enforcement agency that certifies plans, speci	fications, installation	certificates, and ope	erating and mainten	ance
nformation meet the requirements of §10-103(
out and signed forms before the building can re	eceive final occupand	cy. A copy of the EN	JV-2A for each diffe	rent
enestration product line must be provided to the	ne owner of the build	ing for their records.		
Test Description		ENV-2A	Test Performed E	
Fenestration Products Name or ID	Area of like	Building Envelope		
Requiring Testing or Verification	Products	Acceptance Test		
PPG SOLARBAN 80 XL	654	□		
elux Skylight Lo E	20			
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CERTIFICATE OF COMPLIANCE

ENV-1C

(Part 3 of 3)

***********	OR LIGHTING SCHEDULE and FIELD IN ation Certificate, LTG-1- INST (Retain a copy and verify for		************************	***************************************		Field In	entane		٦
Jernik A sepa	tate of Acceptance, LTG-2A and LTG-3A (Retain a copy rate Lighting Schedule Must Be Filled Out for Conditioner	and venity form d and Uncond	i is completed fitioned Soac	and signe ses Instal	a.) ed Liahti	Field In: na Power			J
	hting Schedule is only for:								
Ø	CONDITIONED SPACE		INCONDITIO						
Ø	The actual indoor lighting power listed below includes with §146(a).			-					
Ø	Only for offices: Up to the first 0.2 watts per square foo calculation of actual indoor lighting power density in ac 0.2 watts per square foot is totaled below.								ss of
	Luminaire (Type, Lamps, Ballasts)			Ins	talled V	/atts		************	
Α	B	С	D		*	F	G		1
				How w Was del	rattage termined				eld ector
None or Item Tag	Complete Luminaire Description ¹ (i.e. 3 lamp fluorescent troffer, F32T8, sne dimmable electronic ballasts)		Watts per Luminaire	CEC Default From NAS	According To §130 (d or e)	Number of Luminaines	Installed Watts (D.X.F.)	Pass	Fall
Lİ	2'X4' Recessed Fluorescent Fixture W/F028T5		60.0	Ø		57	3,420		
	2'X2' Recessed Fluorescent Fixture W/F014T5		30.0	Ø		15	450		
L3	6" Recessed CFL W/1-26DTT		30.0	0		58	1,740		
L7	2-T5 Lamp Fluorescent Strip		60.0			3	180		
***************************************						-			-
									0
						+			
•••••									
									П
						1			
	*			nstalled V			5,790	L	
	Building total number of pages:			alled War (S r into LTG	um of al	pages)	5,790		

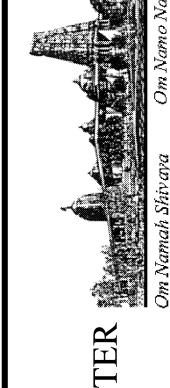
CERTIFICATE OF COMPLIANO Project Name	T Ame		<u>(Part 2 of 3)</u>	Date	G-1
HCC Bldg. D				10/2	7/201
INDOOR LIGHTING SCHEDULE and FIELD					
Fill in controls for all spaces: a) area controls, b) m automatic daylighting controls for daylit areas > 2,5 general lighting controlled separately from display, controls for retail stores > 50,000 ft°, in accordance	i00 ft², d) shut-d ornamental and	iff controls, e) display l I display case lighting	ighting controls, f) tailored	lighting co	ntrols
MANDATORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST					
	Number		Special	nisp	ector
Type/ Description	of Units	Location in Bui			Fa
				<u> </u>	
			<u> </u>		
				+ $=$	
				<u> </u>	
				H <u> </u>	
					0
			<u> </u>		
				12	
SPECIAL FEATURES INSPECTION CHECK					***************************************
The local enforcement agency should pay special a justification and documentation, and special verification and may reject a building or design that otherwise submitted.	ation. The local	enforcement agency of	letermines the adequacy c	f the justifi	cation
Field Inspector's Notes or Discrepancies:					

REVISIONS BY
ISSUE FOR PERMIT
10-28-11

IYER & ASSOCIATES
Architecture Interiors Planning
1100 Montgomery Street
SAN FRANCISCO, CA 94133
415 362-4937 (IYER)
FAX 415 362-8158
2011© IYER & ASSOCIATES

imani & Pamidi Inc

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(D)



TITLE-24 COMPLIANCE FORMS

BUILDING "D"

HINDU COMMUNITY and CULTURAL CENTE

1200 ARROWHEAD AVE. LIVERMORE, CA 94551

PROFESS IONAL G. SRIVER G.

T-24.2

DATE
10/28/11
SCALE:
NONE
DRAWN BY:
PT
PROJECT:
ARROWHEAD

CERTIFICATE O	F COMPLIANCE		(Part 3 of 3)	LTG-1C
Project Name HCC Bldg. D				Date 10/27/2011
	ICONDITIONED SPACE LIGHT	ING MUST	NOT BE COMBINED FOR COMP	
	Power for Conditioned Spaces		Indoor Lighting Power for Uncondi	
•	Wa	tts		Watts
Installed Lighting			alled Lighting	0
(from Conditioned LTG-1C, Pa Lighting Control Credit Conditioned Spaces (from LTG	_	131 Ligh	Unconditioned LTG-1C, Page 2) ting Control Credit nditioned Spaces (from LTG-2C)	- o
Adjusted Installed Lighting Power	=	5 660 Adju	sted Installed ing Power	= 0
Complies if Installed ≤ Alle	owed 1		plies if Installed ≤ Allowed	
Allowed Lighting Power Conditioned Spaces (from I	TG-3C or PERE-1)		wed Lighting Power onditioned Spaces (from LTG-3C)	0
Systems Acceptance. Bef system with controls is insta	ore Occupancy Permit is granted fo alled in the building or space shall b	e certified as	nstructed building or space or when ever meeting the Acceptance Requirements and to be accepted by the enforcements.	er new lighting ts.
Systems Acceptance. Bef system with controls is insta The LTG-2A and LTG-3A f the boxes are checked and agency that certifies plans, of §10-103(b) of Title 24 Pa receive final occupancy. A	ore Occupancy Permit is granted fo alled in the building or space shall b forms are not considered complete f for filled and signed. In addition, a c specifications, installation certificate it 6. The field inspector must receiv copy of the LTG-2A and LTG-3A fo eir records.	e certified as forms and are Certificate of es, and opera e the properl or each differ	nstructed building or space or when ev	er new lighting ts. Int agency unless to the enforcement et the requirements building can e provided to the
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EnergyPro 5.1 by EnergySofi User Number: 2849 RunCode: 2011-10-27T11:45:56 ID: Bld. D

Project Name				,	of 2)	LTG-2C Date		
CC Bldg. D						10/27/2011		
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a Separate PAF schedule are or		tor Conditioned ar	ia Unconditione	a Spaces. Con	troi Credits iis	tea on this		
	ONED SPACES UNCONDITIONED SPACES							
A	В	С	D	E	F	G		
Room # Zone ID Areas	Lighting Control Description ¹	Plan Reference	Room Area	Watts of Control Lighting	Power Adjustments Factor ²	Control Credit Watts (E x F)		
orridor # 2/Vestibi	Occ Sensor - Hallway	L2	440	150	0.25	 ` ' ' 		
orridor # 1	Occ Sensor - Hallway	L2	150	90	0.25	2.		
torage Rm # 113	Occ Sensor - Storage	L7	56	60	0.15			
orridor # 108	Occ Sensor - Hallway	L2	520	210	0.25	5.		
anitor Rm # 107	Occ Sensor - Storage	L7	30	60	0.15	,		
	-							
			+					
			+					
					PAGE TOTAL	13		
lote: Conditioned and	Building	total of non-daylight co	entrol credit watts fo	r all pages of LTC	G-2C Page 1 of 2			
Jncondition e d	En	ter building total of all d	aylight controls cred			(
Space shall be eparately otaled	Enter in		N-DAYLIGHT AND I	DAYLIGHT CON as appropriate for	TROL CREDITS)	13		
. Description shal . Power Adjustme	l be consistent with Type of Control d ent Factor taken from Table 146-C	efined in Table 146-C			,	•		
nergyPro 5.1 by E	EnergySoft User Number: 2849		10-27 T 11: 45 :56	ID: Bld. D		Page 28 of 59		

CERTIFICATE OF COMP FIELD INSPECTION ENE		(Part 1 of 4)	MECH-1C
Project Name	THE PRESENTATION OF THE PR		Date
HCC Bldg. D Project Address	Climate Zone	Total Cond. F	10/27/2011 loor Area Addition Floor Are
1232 Arrowhead Ave. Livermore	I	7,08	
GENERAL INFORMATION	, , , , , , , , , , , , , , , , , , , ,	7,00	, , , , , ,
Building Type: ☑ No	nresidential 🔲 High-Rise Re	esidential 🗖 Hote	el/Motel Guest Room
	ocatable Public School Bldg. 🛛 Cond	ditioned Spaces 🗆	Unconditioned Spaces (affidavit)
· · · · · · · · · · · · · · · · · · ·	w Construction □ Addition	<u> </u>	ration
Approach of Compliance: □ Co	mponent Overall Enve	elope TDV 🔲 Unc	onditioned (file affidavit)
Front Orientation: N, E, S, W or in Degre			
HVAC SYSTEM DETAILS	35 dog	FIELD INSPECT	ION ENERGY CHECKLIST
,			eria or Requirements
Equipment ²	Inspection Criteria	Pass	Fail – Describe Reason
Item or System Tags			
(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	199,000 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 INSPECT	ION ENERGY CHECKLIST
Equipment ²	Inspection Criteria	Pass	Fail – Describe Reason
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	AC-D-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	62,400 Btu/hr		
Cooling Efficiency ¹	12.0 SEER / 12.7 EER		
Duct Location/ R-Value	Attic, Ceiling Ins, vented / 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. For additional detailed discrepancy use Pa	ice efficiency and capacity is less than the Propo all resubmit energy compliance to include the n ge 2 of the Inspection Checklist Form. Complian it), VAV, HP (Pkg or split), Hydronic, PTAC, or c	ew changes. nce fails if a Fail box is che	

Project Name HCC Bldg. D					Date 10/27/20
Project Address		Climate Zone	Total Cond.		Addition Floo
1232 Arrowhead Ave. Livermore GENERAL INFORMATION	!	12	7,08	5/	n/a
	nresidential	☐ High-Rise Reside	ntial 🗆 Ho	tel/Motel G	uest Room
Building Type. —			_	Lincons	ditioned Spa
, ,	ocatable Public Schoo		1	」 (affidav	rit)
Phase of Construction:	v Construction	☐ Addition		eration	
Approach of Compliance: Col	mponent	Overall Envelope Energy	Un ₁	conditioned	l (file affidav
Front Orientation: N, E, S, W or in Degre	es: 90 deg				
HVAC SYSTEM DETAILS			FIELD INSPEC	TION ENER	RGY CHECK
			Meets Cr	iteria or Re	equirement
Equipment ²	Inspec	tion Criteria	Pass	Fail – De	escribe Rea
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	CU/ACC-D-2				
Equipment Type ³ :	Split DX				
Number of Systems	1				
Max Allowed Heating Capacity ¹	16,000 Btu/hr				
Minimum Heating Efficiency ¹	12.00 HSPF				
Max Allowed Cooling Capacity ¹	12,000 Btu/hr				
Cooling Efficiency ¹	0.0 SEER / 14.5 E	ER			
Duct Location/ R-Value	Attic, Roof Ins / 8.0)			
When duct testing is required, submit MECH-4A & MECH-4-HERS	No				
Economizer	No Economizer				
Thermostat	Setback Required				
Fan Control	Constant Volume				
			FIELD INSPEC	TION ENER	RGY CHECK
Equipment ²	Inspec	tion Criteria	Pass	Fail – De	escribe Rea
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	AC-D-5				
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	62,400 Btu/hr				
Cooling Efficiency ¹	12.0 SEER / 12.7	EER			
Duct Location/ R-Value	Attic, Ceiling Ins, v	ented / 8.0			
When duct testing is required, submit MECH-4A & MECH-4-HERS	No				
Economizer	No Economizer				
Thermostat	Setback Required				
Fan Control	Constant Volume				
If the Actual installed equipment performan the building plans) the responsible party sh For additional detailed discrepancy use Pa Indicate Equipment Type: Gas (Pkg or, Spl	all resubmit energy comp ge 2 of the Inspection Ch	bliance to include the new ch ecklist Form. Compliance fai	anges.		omittal or fron

CERTIFICATE OF CON FIELD INSPECTION EN			Part 1 of 4)	MECH-1C
Project Name	LENG! CHECK	LIST			Date
HCC Bldg. D		To: . 7	17.10	-	10/27/2011
Project Address 1232 Arrowhead Ave. Liverm	re.	Climate Zone 12	7,0	Floor Area	Addition Floor Area
GENERAL INFORMATION	ore	12	7,0	07	1 // a
	Vonresidential	☐ High-Rise Reside	ntial 🗖 Ho	otel/Motel G	uest Room
	Relocatable Public Schoo	_			ditioned Spaces
<u> </u>			· · · · · · · · · · · · · · · · · · ·	- (affida)	/it)
Phase of Construction:	New Construction	Addition Overall Envelope	_	teration	
Approach of Compliance:	Component	Energy	^{TDV} □ Ur	nconditione	d (file affidavit)
Front Orientation: N, E, S, W or in De	grees: 90 deg				
HVAC SYSTEM DETAILS			FIELD INSPE	CTION ENE	RGY CHECKLIST
			Meets C	riteria or R	equirements
Equipment ²	Inspec	ction Criteria	Pass	Fail – D	escribe Reason²
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	AC-D-2				
Equipment Type ³ :	Packaged DX				
Number of Systems	1				
Max Allowed Heating Capacity ¹	64,000 Btu/hr				
Minimum Heating Efficiency ¹	80% AFUE				
Max Allowed Cooling Capacity ¹	72,500 Btu/hr				
Cooling Efficiency ¹	12.7 EER				
Duct Location/ R-Value	Attic, Ceiling Ins,	vented / 8.0			
When duct testing is required, submit MECH-4A & MECH-4-HERS	No				
Economizer	Fixed Temp (Integ	grated)			
Thermostat	Setback Required				
Fan Control	Constant Volume				
			FIELD INSPE	CTION ENE	RGY CHECKLIST
Equipment ²	Inspec	ction Criteria	Pass		escribe Reason²
Item or System Tags	<u> </u>				
(i.e. AC-1, RTU-1, HP-1)	AC-D-1				
Equipment Type ³ :	Packaged DX				
Number of Systems	48,000 Btu/hr				
Max Allowed Heating Capacity ¹	80% AFUE				
Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹	62.400 Btu/hr				
Cooling Efficiency ¹	12.0 SEER / 12.7	FFR		+	
Duct Location/ R-Value	Attic, Ceiling Ins,			1	
When duct testing is required, submit MECH-4A & MECH-4-HERS		10,1,04,7,0,0			
Economizer	No Economizer			+	
Thermostat	Setback Required			+	
Fan Control	Constant Volume	•		+	
r an control	Constant volume			1	_

EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2011-10-27T11:45:56 ID: Bld. D

Project Name HCC Bldg. D			Date 10/27/2011
Project Address 1232 Arrowhead Ave. Livermore	Climate Zone	Total Cond. Floor Area 7,087	Addition Floor Area
GENERAL INFORMATION		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Building Type: 🔽 No	nresidential 🗖 High-Rise Resider		
☐ Schools (Public School) ☐ Re	locatable Public School Bldg. 🛮 Conditions	ed Spaces 🔲 Unco (affida	nditioned Spaces
Phase of Construction:	w Construction Addition	□ Alteration	
Approach of Compliance: □ Co	mponent	TDV Uncondition	ed (file affidavit)
Front Orientation: N, E, S, W or in Degre	Energy		
HVAC SYSTEM DETAILS	sec. 90 deg	FIELD INSPECTION EN	ERGY CHECKLIST
TIVAG GIGIEM BETALEG		Meets Criteria or	
Equipment ²	Inspection Criteria		Describe Reason ²
Item or System Tags	AC-D-3		
(i.e. AC-1, RTU-1, HP-1)	Split DX		
Equipment Type ³ : 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	12.0 SEER / 12.8 EER		
Duct Location/ R-Value	Attic, Ceiling Ins, vented / 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 INSPECTION EN	
Equipment ² Item or System Tags	Inspection Criteria	Pass Fail - I	Describe Reason ²
(i.e. AC-1, RTU-1, HP-1)	CU/ACC-D-1		
Equipment Type ³ :	Split DX		
Number of Systems	1		
Max Allowed Heating Capacity ¹	16,000 Btu/hr		
Minimum Heating Efficiency ¹	12.00 HSPF		
Max Allowed Cooling Capacity ¹	12,000 Btu/hr		
Cooling Efficiency ¹	0.0 SEER / 14.5 EER		
Duct Location/ R-Value When duct testing is required, submit	Attic, Ceiling Ins, vented / 8.0		
MECH-4A & MECH-4-HERS	No		
Economizer	No Economizer		
Thermostat	Setback Required		
Fan Control	Constant Volume		

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

EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2011-10-27T11:45:56 ID: Bld. D

Project Name HCC Bldg. D	10: . 7	T	Date 10/27/2011
Project Address 1232 Arrowhead Ave. Livermore GENERAL INFORMATION	Climate Zone 12	Total Cond. Floor 7,087	Area Addition Floor Are
	nresidential 🗖 High-Rise Resid		otel Guest Room
☐ Schools (Public School) ☐ Re	ocatable Public School Bldg. 🛮 🗵 Condition	oned Spaces 🗖 🕻	Jnconditioned Spaces affidavit)
Phase of Construction:	w Construction Addition	☐ Alteration	
Approach of Compliance: □ Co	mponent	e TDV 🔲 Uncond	litioned (file affidavit)
Front Orientation: N, E, S, W or in Degre			
HVAC SYSTEM DETAILS		FIELD INSPECTION	N ENERGY CHECKLIST
		Meets Criteria	a or Requirements
Equipment ²	Inspection Criteria		nil – Describe Reason
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	CU/ACC-D-3		
Equipment Type ³ :	Split DX		
Number of Systems	1		
Max Allowed Heating Capacity ¹	16,000 Btu/hr		
Minimum Heating Efficiency ¹	12.00 HSPF		
Max Allowed Cooling Capacity ¹	12,000 Btu/hr		
Cooling Efficiency ¹	0.0 SEER / 14.5 EER		
Duct Location/ R-Value	Attic, Ceiling Ins, vented / 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 INSPECTION	NENERGY CHECKLIST
Equipment ²	Inspection Criteria	Pass Fa	<u>nil – Describe Reason^a</u>
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	CU/ACC-D-4		
Equipment Type ³ :	Split DX		
Number of Systems	1		
Max Allowed Heating Capacity ¹	16,000 Btu/hr		
Minimum Heating Efficiency ¹	12.00 HSPF		
Max Allowed Cooling Capacity ¹	12,000 Btu/hr		
Cooling Efficiency ¹	0.0 SEER / 14.5 EER		
Duct Location/ R-Value	Attic, Ceiling Ins, vented / 8.0		
When duct testing is required, submit MECH-4A & MECH-4-HERS	No		
Economizer	No Economizer		
Thermostat	Setback Required		
Fan Control	Constant Volume		

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

EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2011-10-27T11:45:56 ID: Bid. D

Page 24 of 59

CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST	(Part 2 of 4)	MECH
Project Name		Date
HCC Bldg. D		10/27/
Discrepancies:		

REVISIONS BY

ISSUE FOR PERMIT
10-28-11

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Architecture Interiors Planning

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E-mail: Mail@APincSF.com 09021(D)



TITLE-24 COMPLIANCE FORMS

BUILDING "D"

HINDU COMMUNITY and CULTURAL CENTE

1200 ARROWHEAD AVE. LIVERMORE, CA 94551

DATE
10/28/11
SCALE:
NONE
DRAWN BY:
PT
PROJECT:
ARROWHEAD

T-24.3



CERTIFICATE OF COMP	LIAN	CE and	FIELD IN	ISPECTI	ON ENE	RGY C	HECKLI:	ST (F	art 3 of	• ,	ECH-1C
Project Name HCC Bldg. D										Date 10/2	27/2011
Required Acceptance Tests											
Designer: This form is to be used by the designer a boxes by all acceptance tests that apply the number of systems. The NA number part of the plans, completion of this secti	and listed	d all equipmer tes the Section	nt that required in the Appen	s an acceptar	nce test. If all e nresidential Re	equipment of eference App	a certain tyr oendices Ma	oe requires a	test, list the e	equipment des	cription and
Duilding Danastraanta											
Building Departments: Systems Acceptance: Before occupance	rv nermit	is granted for	a newly cons	tructed buildin	na or space o	ir a new snac	e-conditionir	na evetem ee	nvina a huildi	na or snace is	onerated for
normal use, all control devices serving the Systems Acceptance: Before occupant	ne buildin	ng or space sha	all be certified	as meeting the	he Acceptano	e Requireme	ents for Code	Compliance		ng or space is	operated for
The MECH-1C form is not considered a person performing the test (Example: HV checked-off forms are required for ALL r specifications, installation, certificates, a	/AC insta newly ins	aller, TAB cont talled equipme	ractor, control ent. In additior	ls contractor, n a Certificate	PE in charge of Acceptance	of project) ar e forms shal	nd what Acce I be submitte	eptance test red to the build	nust be cond ling departme	ucted. The foll ent that certifie	owing s plans,
properly filled out and signed forms befo					ie requiremen	118 01 § 10-10	3(b) and little	e-24 Part 6. I	ne building ir	nspector must	receive the
					MECH-5A	MECH-6A	MECH-7A	e-24 Part 6. I	MECH-9A	nspector must MECH-10A	receive the
properly filled out and signed forms befo TEST DESCRIPTION		MECH-2A Outdoor Ventilation For	eive final occu	pancy.		-	MECH-7A Supply Fan				
properly filled out and signed forms befo TEST DESCRIPTION Equipment Requiring Testing or Verification		MECH-2A Outdoor Ventilation For VAV & CAV	MECH-3A Constant Volume & Single-Zone Unitary	MECH-4A Air Distribution Ducts	MECH-5A Economizer Controls	MECH-6A Demand Control Ventilation DCV	MECH-7A Supply Fan VAV	MECH-8A Valve Leakage Test	MECH-9A Supply Water Temp. Reset	MECH-10A Hydronic System Variable Flow Control	MECH-11A Automatic Demand Shed Control
TEST DESCRIPTION Equipment Requiring Testing or Verification Trane YHC-060	re the bu	MECH-2A Outdoor Ventilation For VAV & CAV	MECH-3A Constant Volume & Single-Zone Unitary	MECH-4A Air Distribution Ducts	MECH-5A Economizer Controls	MECH-6A Demand Control Ventilation DCV	MECH-7A Supply Fan VAV	MECH-8A Valve Leakage Test	MECH-9A Supply Water Temp. Reset	MECH-10A Hydronic System Variable Flow Control	MECH-11A Automatic Demand Shed Control
TEST DESCRIPTION Equipment Requiring Testing or Verification Trane YHC-060 12RLS/AOU112RLS	re the bu	MECH-2A Outdoor Ventilation For VAV & CAV	MECH-3A Constant Volume & Single-Zone Unitary	MECH-4A Air Distribution Ducts	MECH-5A Economizer Controls	MECH-6A Demand Control Ventilation DCV	Supply Fan VAV	Valve Leakage Test	MECH-9A Supply Water Temp. Reset	MECH-10A Hydronic System Variable Flow Control	MECH-11A Automatic Demand Shed Control
TEST DESCRIPTION Equipment Requiring Testing or Verification Trane YHC-060 12RLS/AOU112RLS Trane YHC-072	re the bu	MECH-2A Outdoor Ventilation For VAV & CAV	MECH-3A Constant Volume & Single-Zone Unitary	MECH-4A Air Distribution Ducts	MECH-5A Economizer Controls	MECH-6A Demand Control Ventilation DCV	MECH-7A Supply Fan VAV	MECH-8A Valve Leakage Test	MECH-9A Supply Water Temp. Reset	MECH-10A Hydronic System Variable Flow Control	MECH-11A Automatic Demand Shed Control
TEST DESCRIPTION Equipment Requiring Testing or Verification Trane YHC-060 12RLS/AOU112RLS Trane YHC-072 Trane YHC-048	re the bu	MECH-2A Outdoor Ventilation For VAV & CAV	MECH-3A Constant Volume & Single-Zone Unitary	MECH-4A Air Distribution Ducts	MECH-5A Economizer Controls	MECH-6A Demand Control Ventilation DCV	Supply Fan VAV	Valve Leakage Test	MECH-9A Supply Water Temp. Reset	MECH-10A Hydronic System Variable Flow Control	MECH-11A Automatic Demand Shed Control
TEST DESCRIPTION Equipment Requiring Testing or Verification Trane YHC-060 12RLS/AOU112RLS Trane YHC-072	re the bu	MECH-2A Outdoor Ventilation For VAV & CAV	MECH-3A Constant Volume & Single-Zone Unitary	MECH-4A Air Distribution Ducts	MECH-5A Economizer Controls	MECH-6A Demand Control Ventilation DCV	MECH-7A Supply Fan VAV	MECH-8A Valve Leakage Test	MECH-9A Supply Water Temp. Reset	MECH-10A Hydronic System Variable Flow Control	MECH-11A Automatic Demand Shed Control
TEST DESCRIPTION Equipment Requiring Testing or Verification Trane YHC-060 12RLS/AOU112RLS Trane YHC-072 Trane YHC-048	re the bu	MECH-2A Outdoor Ventilation For VAV & CAV	MECH-3A Constant Volume & Single-Zone Unitary	MECH-4A Air Distribution Ducts	MECH-5A Economizer Controls □ □ □ □	MECH-6A Demand Control Ventilation DCV	MECH-7A Supply Fan VAV	MECH-8A Valve Leakage Test	MECH-9A Supply Water Temp. Reset	MECH-10A Hydronic System Variable Flow Control	MECH-11A Automatic Demand Shed Control
TEST DESCRIPTION Equipment Requiring Testing or Verification Trane YHC-060 12RLS/AOU112RLS Trane YHC-072 Trane YHC-048	re the bu	MECH-2A Outdoor Ventilation For VAV & CAV	MECH-3A Constant Volume & Single-Zone Unitary	MECH-4A Air Distribution Ducts	MECH-5A Economizer Controls U	MECH-6A Demand Control Ventilation DCV	MECH-7A Supply Fan VAV □ □ □ □ □ □	MECH-8A Valve Leakage Test	MECH-9A Supply Water Temp. Reset	MECH-10A Hydronic System Variable Flow Control	MECH-11A Automatic Demand Shed Control
TEST DESCRIPTION Equipment Requiring Testing or Verification Trane YHC-060 12RLS/AOU112RLS Trane YHC-072 Trane YHC-048	re the bu	MECH-2A Cutdoor Ventilation For VAV & CAV	MECH-3A Constant Volume & Single-Zone Unitary	MECH-4A Air Distribution Ducts	MECH-5A Economizer Controls U U U	MECH-6A Demand Control Ventilation DCV	MECH-7A Supply Fan VAV □ □ □ □ □ □ □ □ □	MECH-8A Valve Leakage Test	MECH-9A Supply Water Temp. Reset	MECH-10A Hydronic System Variable Flow Control	MECH-11A Automatic Demand Shed Control
TEST DESCRIPTION Equipment Requiring Testing or Verification Trane YHC-060 12RLS/AOU112RLS Trane YHC-072 Trane YHC-048	re the bu	MECH-2A Cutdoor Ventilation For VAV & CAV	MECH-3A Constant Volume & Single-Zone Unitary	MECH-4A Air Distribution Ducts	MECH-5A Economizer Controls U U U	MECH-6A Demand Control Ventilation DCV	MECH-7A Supply Fan VAV □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Valve Leakage Test	MECH-9A Supply Water Temp. Reset	MECH-10A Hydronic System Variable Flow Control	MECH-11A Automatic Demand Shed Control
TEST DESCRIPTION Equipment Requiring Testing or Verification Trane YHC-060 12RLS/AOU112RLS Trane YHC-072 Trane YHC-048	re the bu	MECH-2A Cutdoor Ventilation For VAV & CAV	MECH-3A Constant Volume & Single-Zone Unitary	MECH-4A Air Distribution Ducts	MECH-5A Economizer Controls □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	MECH-6A Demand Control Ventilation DCV	MECH-7A Supply Fan VAV □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	MECH-8A Valve Leakage Test	MECH-9A Supply Water Temp. Reset	MECH-10A Hydronic System Variable Flow Control	MECH-11A Automatic Demand Shed Control
TEST DESCRIPTION Equipment Requiring Testing or Verification Trane YHC-060 12RLS/AOU112RLS Trane YHC-072 Trane YHC-048	re the bu	MECH-2A Cutdoor Ventilation For VAV & CAV	MECH-3A Constant Volume & Single-Zone Unitary	MECH-4A Air Distribution Ducts □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	MECH-5A Economizer Controls □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	MECH-6A Demand Control Ventilation DCV	MECH-7A Supply Fan VAV	MECH-8A Valve Leakage Test □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	MECH-9A Supply Water Temp. Reset	MECH-10A Hydronic System Variable Flow Control	MECH-11A Automatic Demand Shed Control
TEST DESCRIPTION Equipment Requiring Testing or Verification Trane YHC-060 12RLS/AOU112RLS Trane YHC-072 Trane YHC-048	re the bu	MECH-2A Cutdoor Ventilation For VAV & CAV	MECH-3A Constant Volume & Single-Zone Unitary	MECH-4A Air Distribution Ducts	MECH-5A Economizer Controls □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	MECH-6A Demand Control Ventilation DCV	MECH-7A Supply Fan VAV □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	MECH-8A Valve Leakage Test	MECH-9A Supply Water Temp. Reset	MECH-10A Hydronic System Variable Flow Control	MECH-11A Automatic Demand Shed Control

CERTIFICATE OF COMProject Name						ECKLIST (Part 4 of 4)	Date
ICC Bldg. D		1		1			10/27/2011
TEST DESCRIPTION		MECH-12A Fault	MECH-13A Automatic Fault	MECH-14A Distributed	MECH-15A		
Equipment Requiring Testing	Qty.	Detection & Diagnostics for DX Units	Detection & Diagnostics for Air & Zone	Energy Storage DX AC Systems	Thermal Energy Storage (TES) Systems	Test Performed By:	
Trane YHC-060	3						
12RLS/AOU112RLS	1						
Trane YHC-072	1						
Trane YHC-048	1						
12RLS/AOU112RLS	3						

	India	ate Air Systems Type (Cer	stral Single Zone Backan	a VAV or ato 1
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	man	CU/ACC-D-1	CU/ACC-D-3	CU/ACC-D-4
Number of Systems		1	1	1
11807507 01 03 0100	Indicate Pac	ge Reference on Plans or S	schedule and indicate the	applicable exception(s)
MANDATORY MEASURES	T-24 Sections			
Heating Equipment Efficiency	112(a)	12.00 HSPF	12.00 HSPF	12.00 HSPF
Cooling Equipment Efficiency	112(a)	0.0 SEER / 14.5 EER	0.0 SEER / 14.5 EER	0.0 SEER /14.5 EER
HVAC Heat Pump Thermostat	112(b), 112(c)	Yes	Yes	Yes
Furnace Controls/Thermostat	112(c), 1 15(a)	n/a	n/s	n/a
Natural Ventilation	121(b)	No	No	No
Mechanical Ventilation	121(b)	30 c/m	32 c/m	35 cfm
VAV Minimum Position Control	121(c)	No	No	No
Demand Control Ventilation	121(c)	Yes	Yes	Y e s
Time Control	122(e)	Programmable Switch	Programmable Switch	Programmable Switch
Setback and Setup Control	122(e)	Setback Required	Setback Required	Setback Required
Outdoor Damper Control	122(f)	Auto	Auto	Auto
Isolation Zones	122(g)	n/a	n/a	n/a
Pipe Insulation	123			
PRESCRIPTIVE MEASURES				
PRESCRIPTIVE MEASURES Calculated Design Heating Load	144(a & b)	n/a	n/a	n/a
Calculated Design Heating Load	144(a & b) 144(a & b)	n/e 8,919 Stu/h/	n/a 8,919 Btu/hr	n/a 8,919 Stu/m
Calculated Design Heating Load Proposed Heating Capacity	144(a & b)	8,919 Stu/hr	8,919 Btu/hr	8,919 Stu <i>l</i> ir
Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load	144(a & b) 144(a & b)	8,919 Stu/fir n/a	8,919 Btu/hr n/a	8,919
Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity	144(a & b) 144(a & b) 144(a & b)	8,919 Blu/hr n/a 10,796 Blu/hr	8,919 Btu/hr n/a 10,851 Btu/hr	8,919 Btu/hr n/a 10,846 Btu/hr
Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control	144(a & b) 144(a & b) 144(a & b) 144(c)	8,919 Blu/hr n/a 10,796 Blu/hr	8,919 Btu/hr n/a 10,851 Btu/hr	8,919 Btu/hr n/a 10,846 Btu/hr
Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location	144(a & b) 144(a & b) 144(a & b) 144(c) 144(c)	8,919 Stu/hr n/a 10,796 Stu/hr Constant Volume	8,919 Btu/hr n/a 10,851 Btu/hr Constant Volume	8,919 Blu/hr n/a 10,846 Blu/hr Canslant Volume
Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only)	144(a & b) 144(a & b) 144(a & b) 144(a & c) 144(c) 144(c)	8,919 Blu/hr n/a 10,796 Blu/hr Constant Volume Yes	8,919 Btu/hr II/a 10,851 Btu/hr Constant Volume Yes	8,919 Btu/hr n/a 10,846 Btu/hr Constant Volume Yes
Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool	144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d)	8,919 Stu/hr n/a 10,796 Stu/hr Constant Volume Yes No	8,919 Btu/hr n/a 10,851 Btu/hr Constant Volume Yes No	8,919 Btu/hr n/a 10,846 Btu/hr Constant Volume Yes
Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool Economizer Heat Air Supply Reset	144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d) 144(d)	8,919 Blu/hr n/a 10,796 Blu/hr Constant Volume Yes No No Economizer	8,919 Btu/hr n/a 10,851 Btu/hr Consiant Volume Yes No No Economizer	8,919 Btu/hr n/a 10,846 Btu/hr Constant Volume Yes No No Economizer
Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool Economizer Heat Air Supply Reset Cool Air Supply Reset	144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(c) 144(f)	8,919 Stu/hr n/a 10,796 Stu/hr Constant Volume Yes No No Economizer Constant Temp	8,919 Btu/hr n/a 10,851 Btu/hr Constant Volume Yes No No Economizer Constant Temp	8,919 Btu/hr n/a 10,846 Btu/hr Constant Volume Yes No No Economizer Constant Temp
Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool	144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d) 144(d) 144(f)	8,919 Stu/hr n/a 10,796 Stu/hr Constant Volume Yes No No Economizer Constant Temp	8,919 Btu/hr n/a 10,851 Btu/hr Constant Volume Yes No No Economizer Constant Temp	8,919 Btu/hr n/a 10,846 Btu/hr Constant Volume Yes No No Economizer Constant Temp

EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2011-10-27711:45:56 ID: Bld. D

	REQUIRE	MENIS	(Part 2 of 2)	MECH-20
Project Nams ICC BIdg. D				Date 10/27/2011
	WA	TER ² SIDE SYSTEMS: Chille	rs, Towers, Boilers, Hydro	nic Loops
tem or System Tags i.e. AC-1, RTU-1, HP-1)'				
Number of Systems				
		Indicate Page Referenc	e on Plans or Specification	n ²
MANDATORY MEASURES	T-24 Sections		•	
Equipment Efficiency	112(a)			
³ ipa Insulation	123			
PRESCRIPTIVE MEASURES				
Caolina Tower Fan Controls	144(a & b)			
Cooling Tower Flow Controls	144(h)			
Variable Flow System Design	144(h)			
Chiller and Boller Isolation	144(i)			
CHW and HHW Reset Controls	144(j)			
WLHP isolation Valves	144(i)			
VSD on CHW, CW & WLHP Pumps>5HP	144(j)			
OF Sensor Location	144(i)			
next to applicable section.	and hydronic loop	(or groups of similar equipment) (fill in the reference to sheet num	nber and/or specificatio
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section.	and hydronic loop	(or groups of similar equipment) I res are documented. If a requiren	fill in the reference to sheet num	nber and/or specificatio
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags	and hydronic loop	(or groups of similar equipment) I res are documented. If a requiren	ill in the reference to sheet nurr tent is not applicable, put "N/A"	nber and/or specificatio
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. tem or System Tags i.e. WH-1, WHP, DHW, etc)	and hydronic loop	(or groups of similar equipment) (res are documented. If a requirem	ill in the reference to sheet nurr tent is not applicable, put "N/A"	nber and/or specificatio
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags [i.e. WH-1, WHP, DHW, etc)	and hydronic loop	(or groups of similar equipment) (res are documented. If a requirem Service Hot W	ill in the reference to sheet nurr tent is not applicable, put "N/A"	nber and/or specification in the column next to
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags i.e. WH-1, WHP, DHW, etc) Number of Systems	and hydronic loop	(or groups of similar equipment) (res are documented. If a requirem Service Hot W	ill in the reference to sheet nurr tent is not applicable, put "N/A" fater, Pool Heating	nber and/or specification in the column next to
next to applicable section. Per each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES	and hydronic loop the required featur	(or groups of similar equipment) (res are documented. If a requirem Service Hot W	ill in the reference to sheet nurr tent is not applicable, put "N/A" fater, Pool Heating	nber and/or specification in the column next to
next to applicable section. Por each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER	and hydronic loop the required featur	(or groups of similar equipment) (res are documented. If a requirem Service Hot W	ill in the reference to sheet nurr tent is not applicable, put "N/A" fater, Pool Heating	nber and/or specification in the column next to
next to applicable section. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. term or System Tags i.e. WH-1, WHP, DHW, etc) fumber of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater	and hydronic loop the required feature T-24 Sections	(or groups of similar equipment) (res are documented. If a requirem Service Hot W DHW Heater 1 Indicate Page Referer	ill in the reference to sheet nurr tent is not applicable, put "N/A" fater, Pool Heating	nber and/or specification in the column next to
next to applicable section. Por each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater Water Heater Efficiency	and hydronic loop the required feature T-24 Sections	(or groups of similar equipment) (res are documented. If a requirem Service Hot WIDHW Heater 1 Indicate Page Referer Rinnal # RC98HPI-NG	ill in the reference to sheet nurr tent is not applicable, put "N/A" fater, Pool Heating	nber and/or specification in the column next to
next to applicable section. 2. For each chiler, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater Water Heater Efficiency Service Water Heating Installation	and hydronic loop the required feature T-24 Sections	(or groups of similar equipment) (res are documented. If a requirem Service Hot W OHW Heater 1 Indicate Page Referent Rinnal # RC98HPI-NG 0.85 EF	ill in the reference to sheet nurr tent is not applicable, put "N/A" fater, Pool Heating	nber and/or specification in the column next to
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Stem or System Tags J.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater Water Heater Efficiency Service Water Heating Installation	T-24 Sections 111, 113(a) 113(b)	(or groups of similar equipment) (res are documented. If a requirem Service Hot WIDHW Heater 1 Indicate Page Reference Rinnal # RC98HPI-NG 0.85 EF Controls Req.	ill in the reference to sheet nursent is not applicable, put "N/A" [ater, Pool Heating]	nber and/or specification in the column next to
next to applicable section. Por each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater Water Heater Efficiency Service Water Heating Installation Pipe Insulation POOL AND SPA	T-24 Sections 111, 113(a) 113(b)	(or groups of similar equipment) (res are documented. If a requirem Service Hot WIDHW Heater 1 Indicate Page Reference Rinnal # RC98HPI-NG 0.85 EF Controls Req.	ill in the reference to sheet nursent is not applicable, put "N/A" [ater, Pool Heating]	nber and/or specification in the column next to
next to applicable section. Por each chiller, cooling tower, boiler, section and paragraph number where applicable section. tem or System Tags i.e. WH-1, WHP, DHW, etc) Number of Systems WANDATORY MEASURES SERVICE HOT WATER Certified Water Heater Vater Heater Efficiency Service Water Heating Installation Pipe Insulation POOL AND SPA Pool and Spa Efficiency and Control	T-24 Sections 111, 113(a) 113(b) 123	(or groups of similar equipment) (res are documented. If a requirem Service Hot WIDHW Heater 1 Indicate Page Referent Rinnal # RC98HPI-NG 0.85 EF Controls Req. n/a	ill in the reference to sheet nursent is not applicable, put "N/A" [ater, Pool Heating]	nber and/or specification in the column next to
next to applicable section. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. term or System Tags i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater Water Heater Efficiency Service Water Heating Installation Pipe Insulation POOL AND SPA Pool and Spa Efficiency and Control	T-24 Sections 111, 113(a) 113(b) 113(c) 123	(or groups of similar equipment) (res are documented. If a requirem Service Hot WIDHW Heater 1 Indicate Page Referent Rinnal # RC98HPI-NG 0.85 EF Controls Req. n/a	ill in the reference to sheet nursent is not applicable, put "N/A" [ater, Pool Heating]	nber and/or specification in the column next to
next to applicable section. Por each chiller, cooling tower, boiler, section and paragraph number where applicable section. Term or System Tags J.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater Water Heater Efficiency Service Water Heating Installation Pipe Insulation POOL AND SPA Pool and Spa Efficiency and Control Pool and Spa Installation	T-24 Sections 111, 113(a) 113(b) 113(c) 123	(or groups of similar equipment) (res are documented. If a requirem Service Hot WIDHW Heater 1 Indicate Page Reference Rinnal # RC98HPI-NG 0.85 EF Controls Req. n/a n/a	ill in the reference to sheet nursent is not applicable, put "N/A" [ater, Pool Heating]	nber and/or specification in the column next to
next to applicable section. For each chiller, cooling tower, boiler, section and paragraph number where	T-24 Sections 111, 113(a) 113(b) 113(c) 123 114(a) 115(c) 115(d) 123 atch the building plat domestic water in	(or groups of similar equipment) (res are documented. If a requirem Service Hot William Page Referer 1 Indicate Page Referer Rinnal # RC98HPI-NG 0.85 EF Controls Reg. n/a n/a n/a n/a n/a Reguired ans schedule or specifications. If oop (or groups of similar equipme	ill in the reference to sheet nursent is not applicable, put "N/A" [ater, Pool Heating] arequirement is not applicable, not fill in the reference to sheet	put "N/A" in the column

Project Name HCC <i>Bldg. D</i>				Date 10/27/2011		
	Indic	ate Air Systems Type (Cen	tral. Single Zone. Packa	ge. VAV. or etc)		
Item or System Tags (i.e. AC-1, RTU-1, HP-1)		AC-D-4	CU/ACC-D-2	AC-D-5		
Number of Systems		1	1	1		
330030000000000000000000000000000000000	Indicate Par	ge Reference on Plans or S	chedule and indicate the	applicable exception(s)		
MANDATORY MEASURES	T-24 Sections			арунсавіє ехсерноцоў		
Heating Equipment Efficiency	112(a)	80% AFUE	12.00 HSPF	80% AFUE		
Cooling Equipment Efficiency	112(a)	12.0 SEER / 12.7 EER	0.0 SEER / 14.5 EER	12.0 SEER / 12.7 EER		
HVAC Heat Pump Thermostat	112(b), 112(c)	n/a	Yes	n/a		
Furnace Controls/Thermostat	112(c), 115(a)	n/a	n/a	n/a		
Natural Ventilation	121(b)	Yes	Yes	Yes		
Mechanical Ventilation	121(b)	595 cfm	32 cfm	895 cfm		
VAV Minimum Position Control	121(c)	No	No	No		
Demand Control Ventilation	121(c)	Yes	Yes	Yes		
Time Control	122(8)	Programmable Switch	Programmable Switch	Programmable Switch		
		Setback Required	Setback Required	Setback Required		
Setback and Setup Control	122(e)					
·	122(e) 122(f)	Auto	Auto	Auto		
Outdoor Damper Control	······································	,	Auto n/a	Auto n/a		
Setback and Setup Control Outdoor Damper Control Isolation Zones Pipe Insulation	122(f)	Auto				
Outdoor Demper Control Isolation Zones Pipe Insulation	122(f) 122(g)	Auto		n/a		
Outdoor Damper Control Isolation Zones Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load	122(f) 122(g) 123 124	Auto n/a	n/a	n/a		
Outdoor Damper Control Isolation Zones Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity	122(f) 122(g) 123 124 144(a & b) 144(a & b)	Auto n/s Attic, Ceiling Ins, vented / 8.0 n/s 48,000 Blu/hr	n/s Attic, Roof Ins / 8.0 n/a 8,919 Stu/hr	n/a Attic, Ceilling Ins, vented / 8.0 n/a 48,000 Btu/hr		
Outdoor Damper Control Isolation Zones Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control	122(f) 122(g) 123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b)	Auto n/s Attic, Ceiling Ins, vented / 8.0 n/s 48,000 Blu/hr n/s 51,148 Blu/hr	n/s Attic, Roof Ins / 8.0 n/a 8,919 Btu/hr n/a 10,824 Btu/hr	n/a Attic, Ceiling Ins, vented / 8.0 n/a 48,000 Btu/hr n/a 40,207 Btu/hr		
Outdoor Damper Control Isolation Zones Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location	122(f) 122(g) 123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b)	Auto n/s Attic, Ceiling Ins, vented / 8.0 n/s 48,000 Blu/hr n/s 51,148 Blu/hr	n/s Attic, Roof Ins / 8.0 n/a 8,919 Btu/hr n/a 10,824 Btu/hr	n/a Attic, Ceiling Ins, vented / 8.6 n/a 48,000 Btu/hr n/a 40,207 Btu/hr		
Outdoor Damper Control isolation Zones	122(f) 122(g) 123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(a & b)	Auto n/s Attic, Ceiling Ins, vented / 8.0 n/s 48,000 Blu/hr n/s 51,148 Blu/hr Constant Volume	n/s Attic, Roof Ins / 8.0 n/a 8,919 Btu/hr n/a 10,824 Btu/hr Constant Volume	n/a Attic, Ceiling Ins, vented / 8.0 n/a 48,000 Btu/hr n/a 40,207 Btu/hr Constant Volume		
Outdoor Damper Control Isolation Zones Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only)	122(f) 122(g) 123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c)	Auto n/s Attic, Ceiling Ins, vented / 8.0 n/s 48,000 Biu/hr n/s 51,148 Biu/hr Constant Volume Yes	n/s Attic, Roof Ins / 8.0 n/a 8,919 Stu/hr n/a 10,824 Stu/hr Constant Volume Yes	n/a Attic, Ceiling Ins, vented / 8.0 n/a 48,000 Btu/hr n/a 40,207 Btu/hr Constant Volume Yes		
Outdoor Damper Control Isolation Zones Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool	122(f) 122(g) 123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(d)	Auto n/s Attic, Ceiling Ins, vented / 8.0 n/s 48,000 Blu/hr n/s 51,148 Blu/hr Constant Volume Yes No	n/s Attic, Roof Ins / 8.0 n/a 8,919 Btu/hr n/a 10,824 Btu/hr Constent Volume Yes No	n/a Attic, Ceiling Ins, vented / 8.0 n/a 48,000 Btw/hr n/a 40,207 Btw/hr Constant Volume Yes No		
Outdoor Damper Control Isolation Zones Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool	122(f) 122(g) 123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d) 144(e)	Auto n/s Attic, Ceiling Ins, vented / 8.0 n/s 48,000 Blu/hr n/s 51,148 Blu/hr Constant Volume Yes No No Economizer	n/s Attic, Roof Ins / 8.0 n/a 8,919 Stu/hr n/a 10,824 Btu/hr Constant Volume Yes No No Economizer	n/a Attic, Ceiling Ins, vented / 8.0 n/a 48,000 Btu/hr n/a 40,207 Btu/hr Constant Volume Yes No No Economizer		
Outdoor Damper Control Isolation Zones Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool Economizer Heat Air Supply Reset	122(f) 122(g) 123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(d) 144(d) 144(f)	Auto n/s Attic, Ceiling Ins, vented / 8.0 No Economizer Constant Temp	n/s Attic, Roof Ins / 8.0 n/a 8,919 Btu/hr n/a 10,824 Btu/hr Constant Volume Yes No No Economizer Constant Temp	n/a Attic, Ceiling Ins, vented / 8.0 n/a 48,000 Btw/hr n/a 40,207 Btw/hr Constant Volume Yes No No Economizer Constant Temp		

MECHA	ANICAL VE	NTILATIO	N AND	REHE	AT								MEG	CH-3C
Project Name													Date 10/27	7/2011
пссыиу.	. <i>D</i>													72011 T
		1		VENTILATION						REHE		TION (§144	(d))	
		1	EA BASIS			CUPANCY					VAV MIN			1
	Α	В	С	D	Е	F	G Min CFM	H BEQ'D	l Design	J 50% of	К	L Max. of	M Design	N
Zon	ne/System	Condition Area (ft²)	CFM per ft²	Min CFM By Area B X C	Number Of People	CFM per Person	by Occupant EXF	V.A. Max of D or G	Ventilation Air CFM	Design Zone Supply CFM	B X 0.4 CFM / ft ²	Columns H, J, K, 300 CFM	Minimum Air Setpoint	Transfe Air
Zone -4		714	0.38	271	39.7	15.0	595	595	595					
Zone- 4A		440	0.15	66	1.3	0.0	0	66	0					
AC-D-4							Total	661	595					
Zone-7		213	0.50	107	2.1	15.0	32	107	32					
CU/ACC-D-2	!						Total	107	32					
Zone-5		714	0.38	271	39.7	15.0	595	595	595					
Zone- 5A		242	0.15	36	3.5	15.0	53	53	53					
Zone -5B		314	0.15	47				47	47					
AC-D-5							Total	695	695					
Zone-2		1,077	0.50	539	21.5	15.0	323	539	323					2
Zone -2A		314	0.15	47				47	47					
Zone- 2B		586	0.15	88	7.2	15.0	108	108	108					
AC-D-2							Total	694	478					
Zone-1		1,034	0.38	393	21.1	15.0	317	393	317					
Zone-1A		40	0.15	6	0.8	15.0	12	12	12					
				Totals						Column I Total	Design Ven	tilation Air		
С	Minimum ventilat	tion rate per Secti	on §121, Ta	able 121-A.										
E	Based on fixed s	eat or the greater	of the expe	cted number	of occupant	s and 50%	of the CBC oc	cupant load	for egress pu	rposes for space	s without fixe	ed seating.		
Н	Required Ventila	tion Air (REQ'D V	.A.) is the la	arger of the ve	ntilation rat	es calculate	d on an AREA	BASIS or	OCCUPANCY	BASIS (Column	D or G).			
I	Must be greater t	than or equal to H	, or use Tra	ınsfer Air (colu	ımn N) to m	ake up the	difference.							
J	Design fan suppl	y CFM (Fan CFM) x 50%; or	the design zo	ne outdoor	airflow rate	per §121.							
K	Condition area (f	t ²) x 0.4 CFM / ft ²	or											
L	Maximum of Colu	umns H, J, K, or 3	00 CFM											
М	This must be less	s than or equal to	Column La	and greater tha	an or equal	to the sum	of Columns H	plus N.						
N	equal to the diffe	t be provided whe rence between th	e Required			H) and the D	esign Minimu	m Air (Colui		n H minus M.	equired, tran	nsfer air must		
EnergyPro.5	1 by EnergySoft	User Num	her: 2849			PunCod	e: 2011-10-27	T11.45.56		ID: Bld D			Pa	ge 33 of

EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2011-10-27711:45:56 ID: 8ld. D

AIR SYSTEM REQUI	REMENTS		(Part 1 of	2) MECH-20
Project Name				Date 10/27/2011
HCC Bidg. D				
Item or System Tags	Indi	cate Air Systems Type (Cer		
(i.e. AC-1, RTU-1, HP-1)		AC-D-2	AC-D-1	AC-D-3
Number of Systems		1	1	1
	Indicate Pa	ge Reference on Plans or S	Schedule and indicate the	applicable exception(s)
MANDATORY MEASURES	T-24 Sections			
Heating Equipment Efficiency	112(a)	80% AFUE	80% AFUE	81% AFUE
Cooling Equipment Efficiency	112(a)	12.7 EER	12.0 SEER / 12.7 EER	12.0 SEER / 12.8 EER
HVAC Heat Pump Thermostat	112(b), 112(c)	n/a	n/a	n/a
Furnace Controls/Thermostat	112(c), 115(a)	n/a	n/a	n/a
Natural Ventilation	121(b)	Yes	Yes	Yes
Mechanical Ventilation	121(b)	478 cfm	329 cfm	595 cfm
VAV Minimum Position Control	121(c)	No	No	No
Demand Control Ventilation	121(c)	Yes	Yes	Y <i>e</i> s
Time Control	122(e)	Programmable Switch	Programmable Switch	Programmable Switch
Setback and Setup Control	122(e)	Setback Required	Setback Required	Setback Required
Outdoor Damper Control	122(f)	Auto	Auto	Auto
solation Zones	122(g)	n/a	n/s	n/a
Pipe Insulation	123			
Duct Location/ R-value	124	Atlic, Ceiling Ins, vented / 8.0	Aitic, Ceiling Ins, vented / 8.0	Attic, Ceiling Ins, vented / 8
PRESCRIPTIVE MEASURES	,			
Calculated Design Heating Load	144(a & b)	n/a	n/a	n/a
Proposed Heating Capacity	144(a & b)	64,000 Blu/hr	48,000 Btu/hr	48,000 Btu/hr
Calculated Design Cooling Load	144(a & b)	n/a	n/a	n/a
Proposed Cooling Capacity	144(a & b)	50,432 Blu/hr	42,066 Btu/hr	45,956 Btu/hr
Fan Control	144(c)	Constant Volume	Constent Volume	Constant Volume
DP Sensor Location	144(c)			
Supply Pressure Reset (DDC only)	144(c)	Yes	Yes	Yes
Simultaneous Heat/Cool	1 4 4(d)	No	No	No
				A 1

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

EnergyPro 5.1 by EnergySoft User Number: 2849 **RunCode: 2011-10-27711:45:56** ID: 8ld. D

Fixed Temp (Integrated)

Constant Temp

Constant Temp

No

Economizer

Page 29 of 59

Heat Air Supply Reset Cool Air Supply Reset

Electric Resistance Heating¹
Air Cooled Chiller Limitation
Duct Leakage Sealing, If Yes, a
MECH-4-A must be submitted

No Economizer

Constant Temp

No

Project Name	ENTILATIO	IN AINL	, NENE	AI								ME(Date 10/27	
HCC Bldg. D									r			10/2/	72
	MECI	HANICAL	VENTILATI:	ON (§121(b)2)				REHE	AT LIMITA	TION (§144	(d))	1
	AF	EA BASIS		oc	CUPANCY	BASIS				VAV MIN	IIMUM		\perp
A	В	С	D	E	F	G	н	ı	J	к	L	М	
Zone/System	Condition Area (ft²)	CFM per ft²	Min CFM By Area B X C	Number Of People	CFM per Person	Min CFM by Occupant E X F	REQ'D V.A. Max of D or G	Design Ventilation Air CFM	50% of Design Zone Supply CFM	B X 0.4 CFM / ft ²	Max. of Columns H, J, K, 300 CFM	Design Minimum Air Setpoint	
AC-D-1						Total	405	329					
Zone -3	714	0.38	271	39.7	15.0	595	595	595					
AC-D-3						Total	595	595					Τ
Zone 6	236	0.50	118	2.0	15.0	30	118	30					Τ
CU/ACC-D-1						Total	118	30					Τ
Zone 8	213	0.50	107	2.1	15.0	32	107	32					
CU/ACC-D-3						Total	107	32					
Zone 9	236	0.50	118	2.4	15.0	35	118	35					
CU/ACC-D-4						Total	118	35					Ι
													I
													I
													Τ
													Ι
													I
			Totals						Column I Total	Design Ven	tilation Air	-	Τ
										J			_

С	Minimum ventilation rate per Section §121, Table 121-A.
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 seating
Н	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).
1	Must be greater than or equal to H, or use Transfer Air (column N) to make up the difference.
J	Design fan supply CFM (Fan CFM) x 50%; or the design zone outdoor airflow rate per §121.
K	Condition area (ft²) x 0.4 CFM / ft²; or

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

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: 2011-10-27T11:45:56 ID: Bid. D Page 34 of 5

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

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10-28-11

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mani & Pamidi Inc.

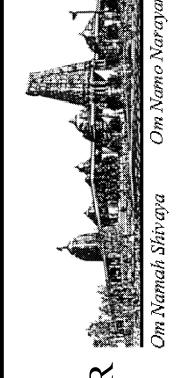
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E-mail: Mail@APincSF.com 09021(D)

No Economizer

Constant Temp

No

Page 30 of 59



TITLE-24 COMPLIANCE FORMS

BUILDING "D"

COMMUNITY and CULTURAL CENTE

DATE
10/28/11
SCALE:
NONE
DRAWN BY:
PT
PROJECT:
ARROWHEAD

HINDU

No. E10472
Exp.12/31/12

No. M18346
Exp. 09/30/12

No. M18346
Exp. 09/30/12

T-24.4

Project Name HCC B ldg . D														Date 10	0/27/2011
CHILLER AND TOWER SUN	MMARY														
	1			1	1							P	PUMPS		Pump
Equipment Name		Type		Qty.		Efficie	ency	То	ons	Qty.	GPM	E	ВНР		Control
DHW / BOILER SUMMARY															
System Name	Тур	9		Distributio	n	Qtv.	Rated Inp		Vol. Gals).	Energy Fa or RE	ctor Sta	andby Lo or Pilot		ank Ext. R-Value	Status
innai # RC98HPI-NG Instant					Pipe Ins	1	199,	_	0		0.85		n/a	n/a	
MULTI-FAMILY CENTRAL V	WATER HEA		ETAILS ater Pump								Heal	Mater Die		mah (fa)	
Control	Qtv.	HP	1		Тур	na			In Plenum Outsid			pıng <u>Lenç</u> Buried		(ft) Add ½" Insulatio	
Senasi		u.ty.				. 71				mi i ionam	- 541		Buriou		
CENTRAL SYSTEM RATING	GS														
	gs						HEATING					OOLING			-
System Name		Type		Qty.	Outp		Aux. kW		clency	Outp	ıt	Е	fficiency		Status
System Name Trane YHC-060	Packag	ed DX		3		48,000	Aux. kW	80	0% AFUE		at 52,400	12.0	fficiency 0 SEER /	12.7 EER	Status New
System Name Trane YHC-060 12RLS/AOU112RLS	Packag Split D.	ed DX		3 4		48,000 16,000	Aux. kW 0.0 0.0	80 12.	0% AFUE 00 HSPF	=	1t 52,400 12,000	12.0	fficiency 0 SEER / 0 SEER /	12.7 EER 14.5 EER	Status New New
System Name Trane YHC-060 12RLS/AOU112RLS Trane YHC-072	Packag Split D. Packag	ed DX X eed DX		3 4 1		48,000 16,000 64,000	Aux. kW 0.0 0.0 0.0	80 12. 80	0% AFUE .00 HSPF 0% AFUE	=	12,000 72,500	12.0 0.0	ifficiency 0 SEER / 0 SEER /	12.7 EER 14.5 EER 12.7 EER	Status New New New
-,	Packag Split D.	ed DX X eed DX		3 4		48,000 16,000	Aux. kW 0.0 0.0	80 12. 80	0% AFUE 00 HSPF	=	1t 52,400 12,000	12.0 0.0	ifficiency 0 SEER / 0 SEER /	12.7 EER 14.5 EER	Status New New
System Name Trane YHC-060 12RLS/AOU112RLS Trane YHC-072	Packag Split D. Packag	ed DX X eed DX		3 4 1		48,000 16,000 64,000	Aux. kW 0.0 0.0 0.0	80 12. 80	0% AFUE .00 HSPF 0% AFUE	=	12,000 72,500	12.0 0.0	ifficiency 0 SEER / 0 SEER /	12.7 EER 14.5 EER 12.7 EER	Status New New New
System Name Trane YHC-060 12RLS/AOU112RLS Trane YHC-072 Trane YHC-048	Packag Split D. Packag Split D.	ed DX X eed DX		3 4 1		48,000 16,000 64,000	Aux. kW 0.0 0.0 0.0	80 12. 80	0% AFUE .00 HSPF 0% AFUE	=	1t 62,400 12,000 72,500 49,450	12.0 0.0	ifficiency 0 SEER / 0 SEER /	12.7 EER 14.5 EER 12.7 EER 12.8 EER	Status New New New New
System Name Trane YHC-060 12RLS/AOU112RLS Trane YHC-072 Trane YHC-048 CENTRAL SYSTEM FAN SU	Packag Split D. Packag Split D.	ed DX X eed DX	Fan Tvo	3 4 1 1		48,000 16,000 64,000 48,000	0.0 0.0 0.0 0.0 0.0	80 12. 80	0% AFUE 00 HSPF 0% AFUE 1% AFUE	SUPPL	1t 62,400 12,000 72,500 19,450	12.0 0.0 12.0	efficiency 0 SEER / 0 SEER / 0 SEER /	12.7 EER 14.5 EER 12.7 EER 12.8 EER	Status New New New New
System Name Trane YHC-060 12RLS/AOU112RLS Trane YHC-072 Trane YHC-048	Packag Split D. Packag Split D.	ed DX X ed DX X	Fan Typa	3 4 1 1		48,000 16,000 64,000 48,000	Aux. kW 0.0 0.0 0.0	80 12. 80	0% AFUE 00 HSPF 0% AFUE 1% AFUE	=	1t 62,400 12,000 72,500 49,450	12.0 0.0 12.0	efficiency 0 SEER / 0 SEER / 0 SEER /	12.7 EER 14.5 EER 12.7 EER 12.8 EER	Status New New New New
System Name Trane YHC-060 12RLSAOU112RLS Trane YHC-072 Trane YHC-048 CENTRAL SYSTEM FAN SL System Name Trane YHC-060	Packag Split D. Packag Split D.	red DX X red DX Consta		3 4 1 1		48,000 16,000 64,000 48,000 Econo omizer	0.0 0.0 0.0 0.0 0.0	80 12. 80	0% AFUE 00 HSPF 0% AFUE 1% AFUE	SUPPL	y FAN BH	12.0 0.0 12.0	efficiency 0 SEER / 0 SEER / 0 SEER /	12.7 EER 14.5 EER 12.7 EER 12.8 EER RETUR	Status New New New New
System Name Trane YHC-060 12RL S/AOU112RLS Trane YHC-072 Trane YHC-048 CENTRAL SYSTEM FAN SL System Name Trane YHC-060 12RLS/AOU112RLS	Packag Split D. Packag Split D.	ed DX	ant Volume	3 4 1 1	No Econ	48,000 16,000 64,000 48,000 Econo omizer omizer	Aux. kW	80 12. 80	0% AFUE 00 HSPF 0% AFUE 1% AFUE	SUPPL CFM	1t 52,400 12,000 172,500 19,450 19,450 19	12.0 0.0 12.0	efficiency 0 SEER / 0 SEER / 0 SEER /	12.7 EER 14.5 EER 12.7 EER 12.8 EER RETUR FM	Status New New New New
System Name Trane YHC-060 12RL S/AOU112RLS Trane YHC-072 Trane YHC-048 CENTRAL SYSTEM FAN SL System Name Trane YHC-060 12RLS/AOU112RLS Trane YHC-072	Packag Split D. Packag Split D.	eed DX	ant Volume ant Volume	3 4 1 1	No Econ No Econ	48,000 16,000 64,000 48,000 Econo omizer omizer mp (Integration)	Aux. kW	80 12. 80	0% AFUE 00 HSPF 0% AFUE 1% AFUE	SUPPL CFM 2,000	1t 52,400 12,000 172,500 19,450 19,450 19	12.0 0.0 12.0 12.0 1P 1.00 0.32	efficiency 0 SEER / 0 SEER / 0 SEER /	12.7 EER 14.5 EER 12.7 EER 12.8 EER RETUR FM none	Status New New New New
System Name Trane YHC-060 12RLS/AOU112RLS Trane YHC-072 Trane YHC-048 CENTRAL SYSTEM FAN SU	Packag Split D. Packag Split D.	eed DX	ant Volume ant Volume ant Volume	3 4 1 1	No Econ No Econ Fixed Te	48,000 16,000 64,000 48,000 Econo omizer omizer mp (Integration)	Aux. kW	80 12. 80	0% AFUE 00 HSPF 0% AFUE 1% AFUE	SUPPL CFM 2,000 430 2,500	1t 52,400 12,000 172,500 19,450 19,450 19	12.0 0.0 12.0 12.0 1P 1.00 0.32 1.00	efficiency 0 SEER / 0 SEER / 0 SEER /	12.7 EER 14.5 EER 12.7 EER 12.8 EER RETUR FM none none	Status New New New New

MECHANICAL Project Name HCC Bldg. D	EQUIPM	ENT D	ETAIL	S						(Part 2 c	ot 2)	Dat		CH-5
ZONE SYSTEM SUN	ΙΜΔΕΥ													,0,2,,,	
				sy	STEM			VAV		F	an				
Zone Name	Syste	n Name	Т	-ype Q	ty. Heating	Cooling	Min CFM Ratio	Reheat	Coil	CFM	ВНР	Fan	ECM Motor	Ou	tside Air
Zone-5	CAV Box/N	Reheat	VAV Box		1 0)	100 %	None							
Zone-1	CAV Box/N	Reheat	VAV Box		1 0		100 %	None							
Zone-1A	CAV Box/N	Reheat	VAV Box		1 0		100 %	None							
EXHAUST FAN SUM	IMARY														
EXHAUST FAN		1		EXHAUST F.	AN		1	1	EXH	IAUST FAN		- 1		Ι	
Room Name	Qty.	CFM	ВНР	Roo	m Name	Qty.	CFM	ВНР		Room N	lame		Qty.	CFM	ВНР
EnergyPro 5.1 by EnergyS	off U	er Number:	2849		RunCod	e: 2011-10-2	7T11:45:56		ID: BI	'd D				Par	e 36 of

	OPE MANDATORY MEASURES: NONRESIDENTIAL	ENV-MN		
Project Nam H <i>CC Bldg</i>		Date 10/27/2011		
DESCRI		<u>'</u>		
Building I	Envelope Measures:			
§118(a):	Installed insulating material shall have been certified by the manufacturer to comply with the Calif Standards for insulating material, Title 20 Chapter 4, Article 3.			
§118(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke de Sections 2602 and 707 of Title 24, Part 2.	ensity requirements o		
§118(f):	The opaque portions of framed demising walls in nonresidential buildings shall have insulation with an installed R-value of no less than R-13 between framing members.			
§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.			
§116(a) 1:	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft.² of 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 (swinging and sliding), and 1.0 cfm/ft.² for nonresidential double doors (swinging).			
§116(a) 2:	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.			
§116(a) 3:	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenerapplicable default SHGC.	stration, or the		
§116(b):	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the buildir weatherstripped (except for unframed glass doors and fire doors).	ng, and shall be		

	IG MANDATORY MEASURES: NONRESIDENTIAL	LTG-MN
Project Name HCC Bldg.	D	Date 10/27/2011
Indoor Li	ghting Measures:	•
§131(d): Sh	ut-off Controls	
	For every floor, all interior lighting systems shall be equipped with a separate automatic control. This automatic control shall meet the requirements of Section 119 and may be an occupancy 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 wit	sensor, automatic time
2.	override switch in sight of the lights. The area of override is not to exceed 5,000 square feet.	
§ 119(h):	Automatic Control Devices Certified: All automatic control devices specified are certified, all a be certified and installed as directed by the manufacturer.	lternate equipment shall
§ 111:	Fluorescent Ballast and Luminaires Certified: All fluorescent fixtures specified for the project are objectory. All installed fixtures shall be certified.	certified and listed in the
§131(a):	Individual Room/Area Controls: Each room and area in this building is equipped with a separa sensor device for each area with floor-to-ceiling walls.	
§131(b):	room.	of lighting within the
§131(c):	Daylight Area Control: All rooms with windows and skylights that are greater than 250 square the effective use of daylight in the area shall have 50% of the lamps in each daylit area contro or the effective use of daylight cannot be accomplished because the windows are continuousl the adjacent lot. Diagram of shading during different times of the year is included on plans.	lled by a separate switch
§131(c):	Display Lighting. Display lighting shall be separately switched on circuits that are 20 amps or	less.6.
Outdoor	Lighting Measures:	
§130(c)1:	Mandatory lighting power determination for medium base sockets without permanently installed	
§132(a):	All permanently installed luminaires with lamps rated over 100 Watts either have a lamp effication per Watt or are controlled by a motion sensor.	cy of at least 60 lumens
§132(b):	All Luminaires with lamps rated greater than 175 Watts in hardscape area, including parking le canopies, and all outdoor sales areas meet the Cutoff Requirements.	ots, building entrances,
§132(c)1:	All permanently installed outdoor lighting meets the control requirements listed.	
§132(c):	Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Levilisted.	el Lighting Requirement
EnergyPro 5.1	by EnergySoft User Number: 2849 RunCode: 2011-10-27T11:45:56 ID: Bld. D	Page 38 of

Project Name	CONTROLS CREDI	· ···	<u> </u>	(Part 1		LTG-2C
HCC Bldg. D						10/27/2011
	ISTMENT FACTORS (PAF) F					
A Separate PAF schedule are or	Worksheet Must Be Filled Out	for Conditioned and	d Unconditioned	d Spaces. Con	trol Credits liste	ed on this
	CONDITIONED SPACES UNCONDITIONED SPACES					
Α	В	С	D	Е	F	G
Room # Zone ID Areas	Lighting Control Description ¹	Plan Reference	Room Area (ft²)	Watts of Control Lighting	Power Adjustments Factor ²	Control Credit Watts (E x F)
	Occ Sensor - Hallway	L2	440	150	0.25	38
Corridor # 1	Occ Sensor - Hallway	L2	150	90	0.25	23
torage Rm # 113	Occ Sensor - Storage	L7	56	60	0.15	9
orridor # 108	Occ Sensor - Hallway	L2	520	210	0.25	53
anitor Rm # 107	Occ Sensor - Storage	L7	30	60	0.15	9
	I				PAGE TOTAL	131
Note:	Building total of non-daylight control credit watts for all pages of LTG-2C Page 1 of 2					
Conditioned and	Enter building total of all daylight controls credit watts from LTG-2C Page 2 of 2					0
Jnconditioned Space shall be	BUILDING TOTAL OF ALL CONTROL CREDIT WATTS					
separately totaled	(FOR BOTH NON-DAYLIGHT AND DAYLIGHT CONTROL CREDITS) Enter in LTG-1C; Page 4: Lighting Control Credit as appropriate for CONDITIONED or UNCONDITIONED Spaces					131
Description shal	l be consistent with Type of Control do ent Factor taken from Table 146-C	efined in Table 146-C				

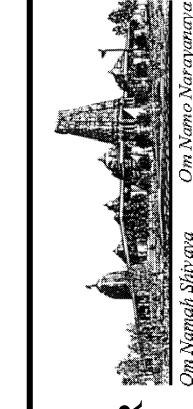
HCC Bldg. L		MECH-MI Date				
		10/27/201				
Equipmer	at and System Efficiencies					
§111:	Any appliance for which there is a California standard established in the Appliance Efficiency Rewith the applicable standard.	gulations will comply				
§115(a):		an type central furnaces shall not have a pilot light.				
§123:	Piping, except that conveying fluids at temperatures between 60 and 105 degrees Fahrenheit, or within HVAC 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 the CMC Standards.					
Controls						
§122(e):	Each space conditioning system shall be installed with one of the following:					
	Each space conditioning system serving building types such as offices and manufacturing facilit explicitly exempt from the requirements of Section 112 (d)) shall be installed with an automatic tracessible manual override that allows operation of the system during off-hours for up to 4 hours shall be capable of programming different schedules for weekdays and weekends and have procapabilities that prevent the loss of the device's program and time setting for at least 10 hours if	ime switch with an s. The time switch gram backup				
1B.	An occupancy sensor to control the operating period of the system; or					
	A 4-hour timer that can be manually operated to control the operating period of the system.					
	Each space conditioning system shall be installed with controls that temporarily restart and temp system as required to maintain a setback heating and/or a setup cooling thermostat setpoint.					
§122(g):	Each space conditioning system serving multiple zones with a combined conditioned floor area more than 25,000 square feet shall be provided with isolation zones. Each zone: shall not exceed 25,000 square feet; shall be provide 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.					
§122(c):	Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint stops accessible only to authorized personnel.					
§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					
§122(a&b):	Each space conditioning system shall be controlled by an individual thermostat that responds to temperature within zone. Where used to control heating, the control shall be adjustable down to 55 degrees F or lower. For cooling, the control shall be adjustable up to 85 degrees F or higher. Where used for both heating and cooling, the control shall capable of providing a deadband of at least 5 degrees F within which the supply of heating and cooling is shut off or reduced to a minimum.					
Ventilatio	n					
§121(e):	Controls shall be provided to allow outside air dampers or devices to be operated at the ventilation rates as specifie on these plans.					
§122(f):	All gravity ventilating systems shall be provided with automatic or readily accessible manually operated dampers in openings to the outside, except for combustion air openings.					
§121(f):	Ventilation System Acceptance. Before an occupancy permit is granted for a newly constructed new ventilating system serving a building or space is operated for normal use, all ventilation sysbuilding or space shall be certified as meeting the Acceptance Requirements for Code Complian	tems serving the				
Service W	ater Heating Systems					
§113(c)	Installation					
	Temperature controls for public lavatories. The controls shall limit the outlet Temperature to 110					
3.	Circulating service water-heating systems shall have a control capable of automatically turning of	off the circulating pun				

REVISIONS BY
ISSUE FOR PERMIT
10-28-11

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TITLE-24 COMPLIANCE FORMS

BUILDING "D"

HINDU COMMUNITY and CULTURAL CENTER

1200 ARROWHEAD AVE. LIVERMORE, CA 94551

DATE
10/28/11
SCALE:
NONE
DRAWN BY:
PT
PROJECT:
ARROWHEAD



T-24.5