## CITY OF SACRAMENTO 1231 I Street, Sacramento, CA 95814

performance of work for which the permit is issued.

ZENITH INS CO

Carrier

this permit is issued. My workers' compensation insurance carrier and policy number are:

0603123 Permit No:

Insp Area:

298A5

Thos Bros: Sub-Type: Site Address: 5516 C ST SAC RES CITY OF SACHARITHOUSING (Y/N): N 004-0154-004 Parcel No: <u>CONTRACTOR</u> CLARKE & RUSH MECH MAR 0 9 2006 ARCHITECT OWNER SZAKACS ERIK 4411 AUBURN BL 5516 C ST SACRAMENTO, CA 95819 NEW CITY HALL SACRAMENTO CA 95841 Nature of Work: PAPERLESS PERMIT. C/OSPLIT SYSTEMHVAC, MOVE A/CTO EAST SIDE OF HOUSE. NEW ELECCIRCUITS. COMPLIANCE DOC'S REQ'D @ FINAL. CONSTRUCTION LENDING AGENCY: I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C). Lender's Address LICENSED CONTRACTORS DECLARATION: I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect. Date 3/9/06 License Number 608005 OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00); I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law). \_ B & PC for this reason: I am exempt under Sec. Date Owner Signature IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements. I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and herby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes. (llu 5)= Date 3/9/06 Applicant/Agent Signature WORKER'S COMPENSATION DECLARATION: I hereby affirm under penalty of perjury one of the following declarations:

workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions. 3/9/06 \_ Applicant Signature\_ Date

I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the

I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which

(This section need not be completed if the permit is for \$100 or less) I certify that in the performance of the work for which this permit is issued, Ishall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the

Policy Number Z066385802

Exp Date

10/01/2006

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

				CF-4R
	FIELD VERIFICATION & DIAGN	10517 <u>C</u>	FESTING RESIDE 3-4 ST ST	
ERTIFICATE OF	FIELD VERIFICATION			
		//		
516 C Street		++	Contractor Name   License No.	_
roject Address	<del>_</del>	/ /	06-03123	
roject rubrass		ephone		
Contractor Contact		- 1	19974	
Contractor Contact	916-704		Sample Group Number	
dichael McDermo		leptione		
HERS Rater	Mellono March 29	<u>, 2006</u>	ee14-1798360556	
Muha	/ Mice	Date	Certificate Normoer	
Certifying Signature	s contest Solut	tions.	HERS Provider: CalCER	rs
	energy Analysis and Comfort Solut	.,,,,,,,	112103 11001111	-1- (CA / 9566)
Firm:	Inc.		City/State/Zip: Orange	/ale / CA / 53002
Street Address:	P.O. Box 2233		-	
2(Lest Word can.			tment	700
a	eowner, HERS Provider and Buil	omg v	is accordance with the Title 24	K Title 20 of the CCR.
Copies to: number	and engistered with the CalCERTS	p regist	ry in accordance with and	
This CF-4R has	eowner, HERS Provider and Buil been registered with the CalCERTS in approved HERS provider by the C	alifornia	Energy Commission	
CSIC FR 1500 IS 40	n approver			
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	SEAUMING LIQUIDAGE COLORS	Shie form	1_	
DISTRICT CESCED	TOOK OF THE CHOOK CHISKE	11004		
The installer	has provided a copy			that the TYV is
THERMOST!	TIC EXPANSION VALVE LIATE	turo sh	all consist of visual verification	tust the IXA is
Access is pro	ATIC EXPANSION VALVE (TXV): vided for inspection. The proce the system and installation of th	TO COCC	ific equipment shall be verified.	
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installed on t	110 0700-		HVAC System TAV	

CERTIE!CATE ()	F FIELD VERIFICATION & DIAGNOSTIC	TESTING (Page 5 of 8)	CF-4R
5516 C Street Project Address		Clarke & Rush Mechanical / 6080 Contractor Name / License No. 06-03123	)05
Contractor Contact	Telephone	Permit Number	
Michael McDermo	ott 916-704-2810 Telephone March 29, 2006	19974 Sample Group Number CC14-1798360556	
Certifying Signature	Contra	Certificate Number HERS Provider: CalCE	RTS
Street Address:	Inc. P.O. Box 2233	City/State/Zip: Orange	evale / CA / 95662
This CF-4R has to CalCERTS® is an HERS RATER Of The house was as the HERS rated of t	provider and Building Desen registered with the CalCERTS® registry approved HERS provider by the California OMPLIANCE STATEMENT  Tested Approved as part of sample test providing diagnostic testing and field verification, compliance requirements as checked on this formation provided a copy of the CF-5R (Installation Cemparation).	Energy Commission.  sting, but was not tested. I certify that the house identified on t	
HIGH EER A	R CONDITIONER:		
	rification are available in RACM, Appendix RI.  EER values of installed systems match the CF-	1R	
	ail For split systems, indoor coil is matched to ou		
	ail Time Delay Relay Verified (If Required)		Ma
	HVAC System: Yes to 1 and	2; and 3 (If Required) is a pass	M Pass   Fail

CERTIFICA	TE OF C	OMPLIA	ANCE: R	ESIDENTIAL	(Page 1	of 5)	CF-1R
Eric Szakacs	<u> </u>				<del></del>	Date	
Project Title							
5516 C Street				acramento CA !	95819	Building	Permit #
Project Address						Dunony	remat."
Patricia Siede	entoof			916-609-2665	<u> </u>		
Documentation A				Telephone		Plan Che	ck / Date
				40		Field Che	eck / Date
Prescriptive	<u> </u>			12 Climate Zone	<del></del>		rcement Agency Use Only
Compliance Met	hod (Prescri	iptive)		Cultate 2018			•
Package	e C and Pac	kage D choi	ces require t	eck one) C ERS rater field verificate able 151-C Footnotes 7-	tion and/or diagr	D (Alternative nostic testing (se	
GENERAL IN	FORMAT	ION					
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OPAQUE SU	RFACES	INCLUDIN	IG OPAQL	E DOORS			
Component Type (Wall, Roof, Floor, Slab Edge, Doors)	Frame Type (Wood or Metal)	Cavity Insulation R-Value	Continuous Insulation R-Value	Assembly Ufactor (for wood, metal frame and mass assemblies) 1	Joint Appendix IV Reference	Roof Radiant Barrier Installed Yes or No	Location/Comments (attic, garage, typical, etc.)

<sup>1)</sup> See Joint Appendix IV in Section IV.2, IV.3 and IV.4, which is the basis for the U-factor criterion. U-factors can not exceed prescriptive value to show equivalence to R-values.

						Date		
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·						<del></del>		
NESTRATION	PRODUCTS	5 – U-FAC	TOR AND S	HGC				
FENESTRA!	TON MAXIMUM	ALLOWED	AREA WORKS	HEET WS-4R -	must be included fo	or New Constructio	n,	
	nd Alterations.							
					1 011004	SHGC		xterior
Fenestration	Orientation	i	U-factor2	U-factor	SHGC4		-	verhangs6, 7
#/Type/Pos.	N, S, E, W1	(ft2)		Source3		300,000		f WS-3R is
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(Page 2 of 5)

CF-1R

CERTIFICATE OF COMPLIANCE: RESIDENTIAL

ERTIFICATE OF	COMPLIAN	CE: RES	IDENTIAL		Page 3 of 5)		CF-1R
			<u> </u>				
c Szakacs ject Title					Date		
						· ···	
SEALED DUCT:	S and TXVs (d	r Alternati	ive Measure	<u>s)</u>			
A signed CF-4R For	rm must be provi	ded to the bu	iliding departm	ent for each	home for which the	following. are	
required.							
Sealed Ducts (all c	limete zonos\ (Ins	taller testine	and certification	on and HERS	rater field verificat	ion required.)	
TXVs, readily acces							
(Installer testing an	d certification as	d HERS Rate	er field verificat	ion required.	)		
Refrigerant Charge	(climate zones 2	and 8-15 on	ly) (installer tes	iting and cert	ification and HERS	Rater field	
verification require							
OR						Easterna for	
Alternative to Seak	ed Ducts and Ref	rigerant Cha	rge /TXVs (See	Package D A	пепацуе Раскаде	reauxes (O)	
Project Climate Zoo	ne in the RM App	endix B Tabl	e 151-C, FOODK	xes /-14.			
OR For additions and a	- the state of the state of	weterne that	are not docume	ented to have	been previously		
ror additions and a	of through field v	erification an	d diagnostic te	sting in acco	ordance with proced	lures in the	
Residential ACM N	ianual and duct s	ystems with	more than 40 H	near feet in u	Inconditioned		
spaces shall meet	the requirements	of Section 1	50(m) and duct	insulation re	equirements of Paci	cage D.	
WATER HE	ATING SYSTE	MS					
Check box if syste	m meets criteria	of a "Standa:	nd" system. Sta	ndard syster	n is one gas-fired w	ater neater per rculation avstern	ı is
<b>T</b> 1	e water heater is	a storage typ	e, sv ganons m	CHE WAYMIN	m capacity and reci	, , , , , , , , , , , , , , , , , , , ,	, , , ,
not allowed.	-1	t Altomativa	Water Heating	table Table	5-4 in Chapter 5 in t	he Residential	
Manual. No water I	sing Preapprove Sestion calculatio	ns are necul	red, and the sy:	stem complic	s automatically.		
Chack hav if evete	m does not meet	criteria of "S	Standard" syste	m, and does	not comply with the	Preapproved	•
Alternative Water	Heating table. In 1	his case, the	Performance I	Method must	be used and must i	be included in the	e
7 Luberittal							<u> </u>
Check box to verif	y that a time con	troi is require	ed for a recircul	lating system	pump for a system	serving multiple	à
units				·			<del></del>
stems serving sing	gle dwelling u	nns	Rated	Tank	Energy		Tank
141-4 LTo	Distribution	Number	input1	Capacity	Factor1 or	Standby1	External
Water Heater Type/Fuel Type	Туре	in System	(kW or	(galions)	Thermal	Loss (%)	Insulation
Typon wor Typo			Btu/hr)		Efficiency		R-Value
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ystem serving mult	the amening	u:#165	Rated	Tank	Energy		Tank
Water Heater	Distribution	Number	inputi	Capacity	Factor1 or	Standby1	External
Type/Fuel Type	Туре	in System	(kW or	(gallons)	Thermal	Loss (%)	Insulation
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CF-1R

heaters, list Rated input and Thermal Efficiencies.

Pipe Insulation (kitchen lines > 3/4 inches) All hot water pipes from the heating source to the kitchen fixtures that are % inches or greater in diameter shall be thermally insulated as specified by Section 150 (j) 2 A or 150 (j) 2 B.

<sup>1</sup> For small gas storage water heaters (rated inputs of less than or equal to 75,000 Btu/hr), electric resistance, and heat pump water heaters, list Energy Factor. For large gas storage water heaters (rated input of greater than 75,000 Btu/hr), list Rated Input, Recovery Efficiency, Thermal Efficiency and Standby Loss. For instantaneous gas water

COLOR	acs			
ect Title		<del></del>	Date	
				· · · · · · · ·
CIAL	EEATURES NOT REQUIRING HER	S VERIFICATION (add extra sheets if	necessary)	
ote wh	ich special features are part of this pr	oject. The list below represents special fea	tures relevant to the Prescr	riptive
	nance Method.			
	Feature	Required Forms (if applicable)	Description	
$\top$	Metal Framed Walls	CF-1R		·
	Radiant Barriers	CF-1R		
П	Exterior Shades	ws-4R		
اسبيط		N/A; Performance Calculation		
T	Cool Roof	Required. Attach CRRC Label to		
		Forms.		<del></del>
	Dedicated Hydronic Heating	Performance Calculation		
نيا		Required; Attach Run to Forms.		
	System Combined Hydronic System	Performance Calcutation		
ليا	Commined Hydromo of State	Required; Attach Run to Forms.		
	Car Cooling	N/A; Performance Calculation		
Ш	Gas Cooling	Required.		
	During During	N/A; Indicate on building plans.		
-	Buried Ducts	See Section 5.6.2 Distribution		
	Kitchen Pipe Insulation	Systems in Residential Manual.		
		See Table 5-13 or use		
	_	Performance Calculation and		
Ш	Multiple Water Heaters Per			
	Owelling Unit	ettach Run to Forms.  Performance Calculation and		
	Central Water Heating System	<b>a</b>		
	Serving Multiple Dwellings	attach Run to Forms.		
	Non-NAECA Large Water	CF-1R		
	Heater			
		See Table 5-13 or use		
П	Indirect Water Heater	Performance Calculation and		
كسبية		attach Run to Forms		<del></del>
-		See Table 5-13 or use		
	Instantaneous Gas Water Heater	Performance Calculation and	1	
لببها		attach Run to Forms		
		See Table 5-13 or use		
	Solar Water Heating System	Performance Calculation and		
ш		attach Run to Forms		
1	Wood Stove Boiler	Performance Calculation and		
لــا	MACON SINAS INCIDIO	attach Run to Forms		
	FEATURES REQUIRING HERS R	ATER VERIFICATION		
PECIAI	FEATURES REQUIRING HERS N	the HERS Rater which credits are par	t of this project and need	d verificatio
add ext	ra sneets ir necessary/ muicate to			
		Required Forms (if applicable)	Description	
	1 -			
П	Feature			
H	Feature Duct Sealing Refrigerant Charge	CF-6R part 4 of 12 CF-6R part 5 of 12		

ERTIFICATE OF COMPLIAN	CE: RESIDEN	TIAL	<u>(P</u>	age 5 of 5)		F- 1R
ic Szakacs						
ject Title				Date		
COMPLIANCE STATE	MENT	**		<b></b>		
This certificate of compliance li 24, Parts 1 and 6 of the Californ them. This certificate has been undersigned recognizes that co and TXVs, insulation installation certification and field verification	ia Code of Regulat signed by the indiv impliance using du n quality, and build	pons, an vidual wi uct desig ding env	d the admir ith overall d in, duct seal elope sealir	esign responsit ling, verification	oility. The of refrigerant cha	
esigner or Owner (per Business and	Professions Code	) [	Documentat 	ion Author		
Name: Patricia Sie	edentopf		lame:	Patric	ia Siedentopf	<del></del>
Title/Firm: Clarke & Rus Address:	h Mechanical		Title/Firm: Address:		& Rush Mechanical	
	ourn Blvd. CA 9	5841		Sacramento	CA_	95841
Sacramento Telephone: 916-	609-2665		Telephone:		916-609-2665	
License #:6	08005					
(signature) (date)			(signature)	(date)		
Enforcement Agency						
Name:			Comments:			
Raille.			_			
Title						
Title						

(date)

(signature / stamp)

5516 C Street

Site Address

Sacramento CA

95819

ii Marahar

An installation certificate is required to be posted at the building site or made available for all appropriate inspections. (The information provided on this form is required) After completion of final inspection, a copy must be provided to the building department (upon request) and the building owner at occupancy, per Section 10-103(a).

## HVAC SYSTEMS:

Heating Equipment

Equip Typ pkg. neat pump	CEC Certified Mfr. Name, Model and Serial Number	# of Identical Systems	Efficiency (AFUE, etc.)1 >(CF-1R value)	Duct Location (attic, etc.)	Duct or Piping R-value	Heating Load (Btu/hr)	Heating Capacity (Btu/hr)
	CARRIER	1	93 AFUE	ATTIC	R4	0	60000
Split Sys	58MTB060-F-12		0 HSPF				
G/E	0						

## **Cooling Equipment**

Equip Typ (pkg. heat pump	CEC Certified Mfr. Name, Model and Serial Number	# of Identical Systems	Efficiency (AFUE, etc.)1 >(CF-1R value)	Duct Location (attic, etc.)	Duct or Piping R-value	Cooling Load (Btu/hr)	Cooling Capacity (Btu/hr)
	CARRIER	1	15.00 SEER	ATTIC	R4	0	30000
Split Sys	38TSA030-3		13 EER				
G/E	0						
	ADP		ļ <u> </u>				
Coil	HCPS1636-M210						
	0						

<sup>1. &</sup>gt; symbol reads greater than or equal to what is indicated on the CF-1R value. Include both SEER and EER if compliance credit for high EER air conditioner is claimed.

I, the undersigned, verify that equipment listed above is: 1) is the actual equipment installed, 2) equivalent to or more efficient than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the Energy Efficiency Standards for residential buildings, and 3) equipment that meets or exceeds the appropriate requirements for manufactured devices (from the Appliance Efficiency Regulations or Part 6), where applicable.

Suggesture, Date 03/22/06

Clarke & Rush Mechanical

Installing Subcontractor (Co. Name)
OR General Contractor (Co. Name) OR Owner

COPY TO: Building Department HERS Rater (if applicable) Building Owner at Occupancy

CF- 6R 0

Sacramento CA

(Page 4 of 12) 95819

Permit Number

## INSTALLER COMPLIANCE STATEMENT FOR DUCT LEAKAGE

INSTALLER COMPLIANCE STATEMENT TON DO	O I LLA	WOL	•	
Copies to: Builder, HERS Rater, Building Owner at Occupancy and Building Department				
INSTALLER COMPLIANCE STATEMENT				
The building was: Tested at Final Tested at Rough-in				
INSTAILER VISUAL INSPECTION AT FINAL CONSTRUCTION STAGE:				
Remove at least one supply and one return register, and verify that the spaces between the	register boot at	nd the inte	rior	
	ug.uu. uuu u			
finishing wall are properly sealed.	and the connect	ion nointe		
the house rough-in duct leakage test was conducted without an air handler installed, insi			•	
between the air handler and the supply and return plenums to verify that the connection pour linespect all joints to ensure that no cloth backed rubber adhesive duct tape is used	mite are property	seuicu.		
V DUCT LEAKAGE REDUCTION				
Procedures for field verification and diagnostic testing of air distribution systems are available	in RACM, Appe	ndix RC4.	3	
NEW CONSTRUCTION:				
Duct Pressurization Test Results (CFM @ 25 Pa)	Measured			
	Values			
1 Enter Tested Leakage Flow in CFM:	57	<u> </u>		
2 Fan Flow: Calculated (Nominal: Cooling Heating) or Measured				
If Fan Flow is Calculated as 400 cfm/ton x number of tons or as 21.7 cfm/(kBtu/hr) x Heating		ļ		
Capacity in Thousands of Btu/hr, enter total calculated or measured fan flow in CFM here:	1000			
3 Pass If Leakage Percentage < 6% for Final or < 4% at Rough-in:		<u> </u>		
[100 x [ (Line # 1) / (Line # 2)]]		Pass		Fail
ALTERATIONS: Duct System and/or HVAC Equipment Change-Out				
4 Enter Tested Leakage Flow in CFM from Pre-Test of Existing Duct System Prior to Duct				
System Alteration and/or Equipment Change-Out.				
5 Enter Tested Leakage Flow in CFM from Final Test of New Duct System or Altered Duct		Ì		
System for Duct System Alteration and/or Equipment Change-Out.				
6 Enter Reduction in Leakage for Altered Duct System				
[ (Line # 4) Minus (Line # 5)] – (Only if Applicable)				
7 Enter Tested Leakage Flow in CFM to Outside (Only if Applicable)				
8 Entire New Duct System - Pass if Leakage Percentage < 6% for Final or < 4% at Rough-in	1	<u> </u>		
[100 x [ (Line # 5) / Line # 2)]]		Pass		Fail
TEST OR VERIFICATION STANDARDS: For Altered Duct System and/or HVAC Equipment	t Change-Out			
Use one of the following four Test or Verification Standards for compliance:				
9 Pass if Leakage Percentage < 15% [100 x [	0.0570	Pass		Fail
10 Pass if Leakage to Outside Percentage < 10% [100 x [ (Line # 7) / (Line # 2)]]		Pass		Fail
11 Pass if Leakage Reduction Percentage > 60% [100 x [ (Line # 6) / (Line # 4)]]		Pass		Fail
and Verification by Smoke Test and Visual Inspection		Pages		Fail
12 Pass if Sealing of all Accessible Leaks and Verification by Smoke Test and Visual Inspection		V ass		Fail
Pass if One of Lines # 9 through # 12 pass		Pass		Fail
		and the second s	nt / /	
I, the undersigned, verify that the above dia	gnostic test res	ults		
were performed in conformance with the requirements for compliance credit. I, the undersigne	d, also certify the	at the new	фy	
installed or retrofit Air-Distribution System Ducts, Plenums and Fans comply with Mandatory re				
Section 150 (m) of the 2005 Building Energy Efficiency Standards.			-	
Bully Mathew 03/22/06 Clarke & Rush Mer		<u></u>		
Signature Date Installing Subcontractor				
General Contractor (Co	, Name)			

	TFICATE	Carron	ento CA	Page 5 of 12 95819	0	CF- 6R
516 C Street		Sacram	enio CA	35013	Permit Number	
te Address					remit Homber	
./						
THERMOST.	ATIC EXPANSIO	N VALVE (TXV)				
Procedures for field ver	rification of thermos	tatic expansion valves are	available ir	RACM, Appen	dix RI.	
						_
+	•	ded for inspection. The pr		1	i	
VYes No	•	l verification that the TXV				
	the system and	installation of the specific	: equipment	1	$\mathcal{X}$	
	shall be verified	<b>.</b>				1
			Yee le e		Pass Fail	$\dashv$
·			Yes is a p	888 1 1	rass     ran	
DESDICEDA	NT CHARGE ME	ACHDEMENT				
	NT CHARGE ME	:ASUKEMEN I d Adequate Airflow for Spi	lit Quetam Q	nace Cooling S	vetome without	
enncation for Required Re termostatic Expansion Va		Adequate Annow to op	iii oyaciii o	page occining e	,, 000	
Outdoor Unit Serial #	JV68					
Location						
Outdoor Unit Make						
Outdoor Unit Model						
Cooling Capacity		<b>B</b>	bu/hr			
Date of Verification						
Date of Refrigerant Gau	ge Calibration	(n	nust be ched	ked monthly)		
Date of Thermocouple (	Calibration	(n	nust be che	ked monthly)		
tandard Charge Mea	euroment Proce	dure (outdoor air dry	-bulb 55o	F and above	a):	
rocedures for Determining	Refrigerant Charge	using the Standard Metho	d are availa	ble in RACM. 4	Appendix RD2.	
				The tit in remail .		hio
te: The system should be	e installed and charg	ed in accordance with the	manufactui	er's specificat	ions before starting t	1112
te: The system should be	e installed and charg	ed in accordance with the	manufactu	er's specificati	ions before starting t	1150
te: The system should be	e installed and charg	ed in accordance with the	manufactui	er's specificati	ions before starting t	1155
ote: The system should be ocedure. easured Temperatures			manufactu	er's specificat		
ote: The system should be occidere.  easured Temperatures  Supply (evaporator leave	ving) air dry-bulb ten	perature (Tsupply, db)	manufactu	er's specificat	F	
ote: The system should be occidente.  easured Temperatures  Supply (evaporator leave Return (evaporator enter	ving) air dry-bulb ten ering) air dry-bulb tei	nperature (Tsupply, db) mperature (Treturn, db)	manufactu	er's specificat	F	
ote: The system should be occidente.  easured Temperatures Supply (evaporator leave Return (evaporator enter Return (evaporator enter Return (evaporator enter ent	ving) air dry-buib ten ering) air dry-buib te ering) air wet-buib te	nperature (Tsupply, db) mperature (Treturn, db) mperature (Treturn, wb)	manufactui	er's specificat	F	
ote: The system should be occidere.  easured Temperatures  Supply (evaporator leavant (evaporator entre evaporator entre evaporator entre evaporator saturation to evaporator saturation satur	ving) air dry-bulb ten ering) air dry-bulb te ering) air wet-bulb te temperature (Tevapo	nperature (Tsupply, db) mperature (Treturn, db) mperature (Treturn, wb)	manufactu	er's specificat	F	
ote: The system should be recedure.  leasured Temperatures Supply (evaporator leave Return (evaporator enter Return (evaporator enter Evaporator saturation to Suction line temperature)	ving) air dry-bulb ten ering) air dry-bulb te ering) air wet-bulb te emperature (Tevapo re (Tsuction, db)	nperature (Tsupply, db) mperature (Treturn, db) mperature (Treturn, wb) rator, set)	manufactu	er's specificat	F F	
leasured Temperatures Supply (evaporator leasure Return (evaporator enter Evaporator enter Evaporator saturation te	ving) air dry-bulb ten ering) air dry-bulb te ering) air wet-bulb te emperature (Tevapo re (Tsuction, db)	nperature (Tsupply, db) mperature (Treturn, db) mperature (Treturn, wb) rator, set)	manufactu	er's specificati	F	
lote: The system should be procedure.  Measured Temperatures Supply (evaporator leave Return (evaporator enter Return (evaporator enter Evaporator saturation to Suction line temperature Condenser (entering) as	ving) air dry-bulb ten ering) air dry-bulb te ering) air wet-bulb te emperature (Tevapo re (Tsuction, db) ir dry-bulb temperatu	aperature (Tsupply, db) imperature (Treturn, db) imperature (Treturn, wb) rator, sat) ire (Tcondenser, db)	manufactu	er's specificati	F F	
tota: The system should be recedure.  leasured Temperatures Supply (evaporator leave Return (evaporator enter Evaporator saturation to Suction line temperature Condenser (entering) as superheat Charge Method (	ving) air dry-bulb ten ering) air dry-bulb ten ering) air wet-bulb te temperature (Tevapon re (Tsuction, db) ir dry-bulb temperature Calculations for Refri	aperature (Tsupply, db) imperature (Treturn, db) imperature (Treturn, wb) rator, sat) ire (Tcondenser, db) igerant Charge	manufactu	er's specificati	F F	
ote: The system should be rocedure.  leasured Temperatures Supply (evaporator leave Return (evaporator enter Return (evaporator enter Evaporator saturation to Suction line temperature Condenser (entering) auperheat Charge Method (Actual Superheat = Tsu	ving) air dry-bulb ten ering) air dry-bulb te ering) air wet-bulb te emperature (Tevapoi re (Tsuction, db) ir dry-bulb temperatu Calculations for Refri ection, db — Tevapora	aperature (Tsupply, db) imperature (Treturn, db) imperature (Treturn, wb) rator, sat) ire (Tcondenser, db) igerant Charge	manufactu	er's specificati	F	
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easured Temperatures  Supply (evaporator leav Return (evaporator enter Evaporator saturation t Suction line temperature Condenser (entering) ai  uperheat Charge Method ( Actual Superheat = Tsu Target Superheat (from Actual Superheat — Tan emperature Split Method (	ving) air dry-bulb tenering) air dry-bulb teering) air wet-bulb teering) air wet-bulb teering air wet-bulb teering air wet-bulb teering are (Tsuction, db) ir dry-bulb temperatuction, db — Tevapora Table RD-2) get Superheat (Syste	inperature (Tsupply, db) imperature (Treturn, db) imperature (Treturn, wb) interer (Tcondenser, db) interer (Tsupply, db) interer (Treturn, wb) interer (Tcondenser, db) intere	nd +5°F)	er's specificati		
ote: The system should be rocedure.  leasured Temperatures  Supply (evaporator leave Return (evaporator enteredurn (evaporator enteredurn (evaporator enteredurn (evaporator enteredurn)) all the superheat Charge Method (Actual Superheat (from Actual Superheat — Tanget Superheat — Tanget Superheat — Tanget Superheat — Superheat — Tanget Superheat — Split Method (evaporature Split Method (evaporator enteredure evaporator enteredure enteredure enteredure enteredure evaporator enteredure ente	ving) air dry-bulb tenering) air dry-bulb tenering) air wet-bulb tenering) air wet-bulb tenering) air wet-bulb tenering (Tsuction, db) ir dry-bulb temperatuction, db — Tevapora (Table RD-2) get Superheat (Systemot necessary if Adecnot necessary is a Adecnot necessary if Adecnot necessary is a Adecnot necessary in the Adecnot necessary is a Ade	inperature (Tsupply, db) imperature (Treturn, db) imperature (Treturn, wb) inter (Tcondenser, db) inter (Tcondense	nd +5°F)	er's specificati		
cte: The system should be occidure.  easured Temperatures  Supply (evaporator leaver the sum (evaporator enter the suction line temperature) and the superheat Charge Method (Actual Superheat Foundation and the superheat (from the superheat Superheat Superheat (from the superheat (from the superheat Superheat (from the superh	ving) air dry-bulb tenering) air dry-bulb tenering) air wet-bulb tenering) air wet-bulb tenering) air wet-bulb tenering air wet-bulb temperature (Tsuction, db) ir dry-bulb temperatuction, db — Tevapora Table RD-2) get Superheat (Systematic Systematic Sy	inperature (Tsupply, db) imperature (Treturn, db) imperature (Treturn, wb) interaction (Treturn, wb) interaction (Tcondenser, db) in	nd +5°F)	er's specificati		
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•

INSTALLATION CERTIFICATE	<u></u>	age our (2)	CI = 617
5516 C Street	Sacramento CA	95819	0
ite Address		Perm	it Number
tandard Charge Measurement Summary:			
System shall pass both refrigerant charge and adequate	airflow calculation cr	iteria from the same	
measurements. If corrective actions were taken, both cri	iteria must be r <del>e</del> meas	ured and recalculated.	
Vies No System Passes			
Alternate Charge Measurement Procedure (outdoor a	ir dry-bulb below 55 o	F)	
ote: The system should be installed and charged in accordance	e with the manufacture	er's specifications and i	nstaller
erification shall be documented on CF-6R before starting this p	rocedure. If outdoor a	ir dry-bulb is 55 oF or a	bove, installer
hall use the Standard Charge Measure Procedure:			
rocedures for Determining Refrigerant Charge using the Alterna	ate <b>Metho</b> d are availal	ole in RACM, Appendix	RD3.
eigh-In Charging Method for Refrigerant Charge			
Actual liquid line length:		ft	
Manufacturer's Standard liquid line length:		ft	
Difference (Actual – Standard):		ft	
Manufacturer's correction (ounces per foot) x diff	ference in length =	ounces	
(+=	add) (- = remove)		
easured Airflow Method for Adequate Airflow Verification available Calculated Airflow: Cooling Capacity (Btu/hr)	able in RACM, Append	lix RD2.6 CFM	
Measured Airflow is CFM (Measured airflow n	nust be greater than t	ne calculated airflow).	
iternate Charge Measurement Summary: ystem shall wass both refrigerant charge and adequate airflow o tions were taken, both criteria must be remeasured and recalc Yes No System Passes		m the same measureme	ents. If corrective
Signature, Date  COPY TO: Building Department	•	<b>Mechanical</b> actor (Co. Name) OR r (Co. Name) OR Owner	
vvi i iv. Dukung poparanok			

COPY TO: Building Department HERS Rater (if applicable) Building Owner at Occupancy

STALLATIO	V CER	TIFICATE		(F	age 8 of 12)	CF- 6R
6 C Street			Sac	ramento CA	95819	0
Address						Permit Number
THE REAL PROPERTY CONTRACTOR OF THE PROPERTY CON						
		DRAW				
			handler watt draw are avail	able in RACM, A	oppendix RE3.2.	<b>_</b>
M	ethod F		ntt Draw Measurement			<b>_</b>
	1 L	RE3.2.1	Portable Watt Meter Mea	surement		
		RE3.2.2	Utility Revenue Meter Me	asurement		
			Measured Fan watt Draw:	Enter	results of Watts/cf	m:
			Measured Fan Flow (Enter to	al cfm from airfic	w verification)	
				Enter	results of Watts/cf	m:
	ı					
	8	No	Calculated fan watt/cfm i	s equal to or lowe	er than the fan	
<u> </u>			watt/cfm draw document	ed in CF-1R		
					Yes is a pass	Pass Fall
<b>-</b>						
			W VERIFICATION			
			iagnostic testing of adequate a	rflow are availab	le in RACM, Apper	ndix RE4.1.
- T		rflow Measu				
. Ye			uct design exists on plans			
<del></del>			agnostic Fan Flow Using Flow			
<del>-</del>			agnostic Fan Flow Using Plenu			
<del></del>			agnostic Fan Flow Using Flow	irid Measuremen	t	
Measured Airflow:						cfm/ton
1 6	<del></del>	L. les				· · · · · · · · · · · · · · · · · · ·
Ye	<u> </u>	No M	easured airflow is greater than		He RE-2	
<u> </u>			Yes is a p	<u> </u>	1	Pass Fall
<del></del>						
T MAXI	MUM (	COOLING	CAPACITY			
			cooling load capacity are avail	able in RACM, Ar	pendix RF3.	
Ye	-		dequate airflow verified (see			
Ye			efrigerant charge or TXV			
Ye		-	uct leakage reduction credit	verified		
Ye	- 1				to maximum co	olina
Yes No Cooling capacities of installed systems are ≤ to maximum cooling capacity indicated on the Performance's CF-1R and RF-3.						
			the cooling capacities of ins			num
Ye	. $lacksquare$	_	oling capacity in the CF-1R	-		
۳.۰	· L	ببتنسية	stalled systems must be ≤ to		-	
			Yes to 1, 2, and 3; a			Pass Fail
/			100 10 1, 2, 410 0, 6	100 100 110	, 4 0, 0 13 a pass	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
A HIGH	ÉFR A	AIR COND	ITIONER		<del></del>	
<b>-</b>			allable in RACM, Appendix F	4		
V bree			ER values of installed system		F-1R	
VYe			r split system, indoor coil is			<del>- /- /- /- /- /- /- /- /- /- /- /- /- /-</del>
	_	_	me Delay Relay Verified (If R			[4   [
Yes		No Ti	me Delay Relay Vermed (IT N Yes to 1 and 2; and	•	ie a naec	Pass Fail
		1	restorand 2; and	o (ii roequired)	is a paiss	rass i raii
		(3,. III)	- Mathin 03/20	21/11	Clarko & I	Rush Mechanical
		<u>~ www.</u>				
		//	Signature, Date	Installir	ng Subcontractor (	(Go. Name) OK

General Contractor (Co. Name)

COPY TO: Building Department, HERS Rater, Building Owner at Occupancy

Performed



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Faxed request must be received in this office by 3.00 p.m. to be processed the following work day. Note: Contractors must have a current certificate of Worker's Compensation Insurance. Fax # 916-264-1901

Note: Work started before a Building Permit is issued will be subject to auad fee

IN ORDER TO PROCESS THIS REQUEST, ALL THE FOLLOWING INFORMATION MUST BE PROVIDED.  MENTS (4+ units per building) • COMMERCIAL dimited)	SAC TO 958/9 UNIT# . CONTRACT PRICE & 6 23 600	CONTACT PHONE: (OCG-DUC)	Contractor: Clara KE& Rush Mech License (LOBO)	Address: 4411 AUDUL DIVG. 4 8	City/State/Zip: 1787797970 C.A. A CONT	Phone: 1209-201   FAX: (009-201)	
IN ORDER TO PROCESS THIS REQUEST, ALL THE FOLLO	16 5 37	· CONTACT PERSON: MAKTHY TORGES	Owner GRic S. P.	V	1/State/Zipi, SACTO. CA. 9589		

F	ATURE OF REQUEST:	Indicate from the selecti	the selections below & provide details under description of work.	der description of work.	5515000
Z	REROOF (excheding tile)	HVAC INSTALLATIONS	* WATER HEATER	MINOR ELECTRIC andior	• PUBLIC UTILITIES
	RESHEET	CHANGE OUT NEW	GAS * REECTRIC	(residential ONLY)	(Relidental and single apartment
Æ`	HOUSE GARAGE	rest rump	· Change-out	· Electric Service Change	units ONLY).
OUARES atental	282 282 283 283 283 283 283 283 283 283	Roof mount	Electric to Oss     Relocate	r mow electric circuits	COMS •
		• Meat pump or elect.	A92	· Re-wit	• PGB
<b>5</b>	srbing .	unit to gas.  • Wall furnace		· Water Service Replacement	
	- T.I.I.	below)	DRY ROT OR TERMITE	· Sewer Service Replacement	*NOTE:
streed		Value of duct work:: Equipment: \$	DAMAGE REPAIR (Describe locations below)	· Gas Line Replacement · Re-elumb	will require an additional
' <u>nte:</u>		Cut-fn; \$	-	· Water · Waste	
country.	lesign Review approval may be equivad in certain areas.	Note: Design Review approvs] may be	Note: Design Review approval may be		
-		required for rooftop units.	required in certain areas.		
OES	DESCRIPTION OF WORK:		トンソナサ	1 1 2000 A T T CO 12 - 401 / Commend	- 301 /Canad
. <del></del>	-	Shorty	ングナリーの	1191 811 11 50	county Chang
EJadxi	experimenting [rev online 1/10/00]	SYSTER,	MOUR AIC TO	SYSTKH, MOUR AIC TO EAST SIAR OF MOUTH	House,
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			• .	Clark & Rush Me			<sub>1</sub>	p. 2 DATE (MMDD/YYYY) 10/17/2005			
PROI	odia c	of Californ	nia Insurance S	(915) 231-1741	ONLY AND	TY INSURANCE  10/17/2005  THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.					
110	17 Co	iC #0352 bbierock Cordova.	275 ; Drive, Suite 10 CA 95670	00	MISURERS A	INSURERS AFFORDING COVERAGE					
MSU				inical Inc., Dba Berken & Cla	1 OY	MEURER A Lexington Insurance Company MEURER & Transcontinental Insurance Company MEURER & Zenith Insurance Company					
- P	MED		g & Air		Section P. 178						
		4411 /	Luburn Bivd.		MISLINER C. ZET	ith insurance '	company				
		Sacrat	mento, CA 9584	11	MSLIRER D.						
					PHSURER E:	DISURER E:					
CO'	VERA	GES ICIES OF R MIREMEN RTAIN, THE AGGREG	NSURANCE LISTEL T. TERM OR COND INSURANCE AFFO THE LISTES SHOW	D BELOW HAVE SEEN ISSUED TO T ITION OF ANY CONTRACT OR OTH ROED BY THE POLICIES DESCRIB IN MAY HAVE BEEN REDUCED BY	ED HEREIN IS SUBJECT	TO ALL THE IEN	M3, Exception 1117	NOTWITHSTANDING BE ISSUED OR INDITIONS OF SUCH			
	MSRD		F OF INSURANCE	POCICY MUMBER	PALICY EFFECTIVE DATE WINDOWYD	DATE (MINOCOTT)		1,000,00			
LIK		CEMERAL LI					EACH OCCURRENCE:	50,00			
A	-	X COLDE	RCIAL GENERAL LIABI	LITY 1144563	6/1/2005	6/1/2006	PREMISES (Se occurence)	8			
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		165-40				PERSONAL & ADV HUJURY  GENERAL AGGREGATE	2,000,00				
	li						PRODUCTS - COMPIOP AGG	4 000 04			
		GENL AGGR	EGATE LIMIT APPLIES	PER:			PRODUCTS COLUMN				
		AUTORIOBEL	E LIABILITY	C2077566140	£/1/2005	6/1/2005	COMMINED SMOLE LAST (Se ecolony)	5 1,000.00			
		X ALLOW	NED AUTOS				BODILY INJURY (Person)	\$			
÷	X SCHEDULED AUTOS X MINED AUTOS X NON-OWNED AUTOS						SCORY IKXRY (Per posiders)	\$			
		NOH-OV	VNED AUTOS		-		PROPERTY DAMAGE (Per scorere)	\$			
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NEG			TOWE / COATIONS /	VENETICS / EXCLUSIONS ADDED BY END	CONTRACT / SPECIAL PRO	VEHCHS		-			

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ACCED BY ENGINEERING / SPECIAL PROVIDENCE TO PROPERTY IS SELECTED AND ACCED BY ENGINEERING / SPECIAL PROVIDENCE OF CANCELLATION FOR THE PROPERTY IS SELECTED AND ACCED BY ENGINEERING / SPECIAL PROVIDENCE OF CANCELLATION FOR THE PROPERTY IS SELECTED AND ACCED BY ENGINEERING / SPECIAL PROVIDENCE OF CANCELLATION FOR THE PROVIDENCE OF CANCELLATION FOR THE PROVIDENCE OF CANCELLATION FOR THE PROPERTY IS SELECTED AND ACCED BY ENGINEERING / SPECIAL PROVIDENCE OF CANCELLATION FOR THE PROPERTY IS SELECTED AND ACCED BY ENGINEERING / SPECIAL PROVIDENCE OF CANCELLATION FOR THE PROPERTY IS SELECTED AND ACCED BY ENGINEERING / SPECIAL PROVIDENCE OF CANCELLATION FOR THE PROPERTY IS SELECTED AND ACCED BY ENGINEERING / SPECIAL PROVIDENCE OF CANCELLATION FOR THE PROPERTY IS SELECTED AND ACCED BY ENGINEERING / SPECIAL PROVIDENCE OF CANCELLATION FOR THE PROPERTY IS SELECTED AND ACCED BY ENGINEERING / SPECIAL PROPERTY IS SELECTED AND ACCED BY THE PROPERTY IS SELECTED AND ACCED BY THE PROPERTY IS SELECTED BY THE P

tE: Evidence of Insurance.

ACORD 25 (2001/08)

CERTIFICATE HOLDER	CANCELLATION
Constructors State License Board P.O. Box 26040 Sacramento, CA 95826-	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED SEFORE THE EXPIRATIO DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CENTERGATE HOLDER MAILED TO THE LEFT, BUT FAILURE TO SO SO SHALL IMPOSE NO OBLIGATION OR LABELITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR
	ALTHORIZED REPRESENTATIVE TO THE MEXICAL PROPERTY AND ADDRESS AT THE PROPERTY AND ADDRESS AT THE MEXICAL PROPERTY AND ADDRESS AT THE PROPERTY AND ADDRESS AT THE PROPERTY AND ADDRESS AT THE PROPERTY ADDRESS AT THE PROPERTY AND ADDRESS AT THE PROPERTY AND ADDRESS AT THE PROPERTY ADDRESS AT THE PROPERTY AND ADDRESS AT THE PROPERTY AND ADDRESS AT THE PROPERTY ADDRESS AT THE PROPERTY AND ADDR

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