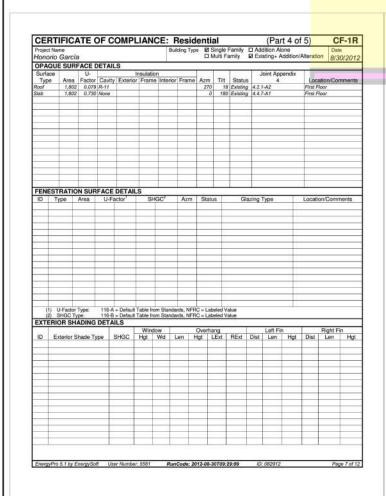


PERFORM	MINUE OF		CAIL	nesiden	itiai	/1	Part 3 of 5)	CF-1R
Project Name Honorio Garcia	a			Building Type	☑ Single Family ☐ Multi Family		n Alone g+ Addition/Alteration	Date 8/30/201.
ANNUAL ENER				100				*
TDV /LDs.//	Standa	and Pro	oposed	Morgin				
(KDIU/I								
Space Heating		49.29	33.82	15.48				
Space Cooling		57.65	63.90	-6.26				
Fans		15.01	18.59	-3.58				
Domestic Hot V	Vater	25.08	25.08	0.00				
Pumps		0.00	0.00	0.00				
	O-LINIO	47.02	141.39	5.64				
Percent Better				3.8 %				******
BUII	LDING C	OMP	LIES	- NO HEI	RS VERIF	CATI	ON REQUIR	RED
Ewrit Herrore	200.0000		2523	19300000	120000000000000000000000000000000000000	(a) 55		enestration
Building Front C				270 deg	Ext. Walls/R	oof	Wall Area	Area
Number of Dwe				1.00	(W)		393	26
Fuel Available a			Pr	opene 0	(N) (E)		582 392	84
Raised Floor Ar				794	(E) (S)		581	48 80
Slab on Grade				10.3	Roof		1,794	0
Average Ceiling Fenestration	Average U-F			0.88	AUG		TOTAL:	238
renestration	Average SHO			0.71	-		n/CFA Ratio:	13.3 %
REMARKS	Average SHU	uc:	1.0	W.K.T.	P	enestratio	n/GFA Ratio:	13.3 %
STATEMEN	T OF COM	PLIANC	E					
STATEMEN [*] This certificate	of compliance Title 24, Parts	lists the	building f	ve Regulations	pecifications nees and Part 6 the	ded		
STATEMEN* This certificate to comply with Efficiency Stand	of compliance Title 24, Parts dards of the C	lists the 1 the Ad California	building f ministrati Code of F	ve Regulations Regulations.			olete.	
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STATEMEN This certificate to comply with Efficiency Stand Documental Company ARG Address P.O. City/State/Zip Sama The individual vof construction with any other of duct state getting.	of compliance Title 24, Parts Jards of the C tion author he tion Author 6 Compliance, Ini Box 3777 ta Rosa, CA 9544 with overall de documents is alculations su alculations ar infication of re and certificati Owner (pe	e lists the 1 the Ad California ereby cer c 2 esign resp consiste ubmitted efrigerant ion and file er Busine	building f ministrati Code of F tifies that consibility nt with the with this p charge, is eld verific	Name Mario Be Phone 707-237 hereby certifie e other complicationsulation insta- ation by an ap	and Part 6 the artisco -e957 es that the propo- ance forms and vi- con, and recogni- illation quality, ar- proved HERS re	signer sed building worksheet tees that co	ng design represer s, with the specific ampliance using du	Date ited in this set ations, and ict design,
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STATEMEN' This certificate to comply with Efficiency Stant The documental Company NRG Address P.O. City/State/Zip. Sam vith any other or duct sealing, veinstaller testing Designer or Company Mere Company Mere	of compliance of the Cartilla Park of the Cartilla	e lists the 1 the Ad California ereby cer c 2 esign resp consiste ubmitted efrigerant ion and file er Busine	building f ministrati Code of F tifies that consibility nt with the with this p charge, is eld verific	Name Mario Bi Phone 707-237 hereby certifie e other complia- neulation insta- ation by an ap- professions C	ation is accurate artacco -ee57 ss that the propo- ance forms and vion, and recognil. Batton quality, ar proved HERS re- code). Laurence (MAR-Cc	Signer Si	od ng design represer s, with the specific mphliance using du g envelope sealing	Date ted in this set ations, and cct design, require

Phone 760-805-2358 Signed License #

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Wall	_	238	0.102		_	+	_	-	0		Now		1-A3			Floor	
Roof		192	0.031						270		New		1-A20			Floor	
Stab		192	0.730	None					0	180	New	4.4.	7-A1		First	Floor	
Wall		242	0.356						270		Existing					Floor	
Door		13	0.500		_	-	-		270		New		1-A4			Floor	
Wall		391	0.356		-	-	-	_	180		Existing					Floor Floor	
Door Wall		20	0.356		-	+	+	-	180		Existing Existing					Floor Floor	
Wall	_	260	0.356		_		1		0		Existing					Floor	_
Walt		63	0.356			1			270		Remov					Floor	
Wall		50	0.356						180		Remove					Floor	
Wall		246	0.356						0		Remov					Floor	
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6	Wind	low	36.0	1.040	Default	0.76	Default		Existin		ingle Non				First Floo	ŕ	
7	Wind		40.0		Dofauit		Default		Ramo		ngle Non				First Floo		
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	(2) 8	HGC Ty	pe:	116-B	- Default			dards, NFF									
EXT	ERIC	OR SH	ADING	DETA	ILS												
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CERTIFICATE Project Name						Iding T				ıllı D	Addition	art 5 c		Date	
Honorio García					150	origin.			iti Famil				/Alteration	8/30/2	004
BUILDING ZONE INF	OR	MAT	ION		-									0/30/2	011
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Project Name	Date
Ionorio Garcia	8/30/2012
VOTE; tow-fise residential buildings subject to the Standards must comply with all applicable mandatory measures list he compliance approach used. More stringent energy measures listed on the Certificate of Compliance (CF-RI, CF-RI, RI-R-LI Form) shall supersede the items marked with an asteriak (*) below. This Mandatory Measures Summary shall ton the permit documents, and the applicable features shall be considered by all parties as minimum componente perfort specifications whether they are shown elsewhere in the documents or in this summary. Submit all applicable sections of form with plane.	-ADD, or CF- be incorporated mance
Building Envelope Measures:	
§116(a)1: Doors and windows between conditioned and unconditioned spaces are manufactured to limit air leakage. 1144: Fenestration products (except lead-fabricated windows) have a label listing the certified U-Factor, certified Sc Definicient (ISHOC), and nithtration that meets the requirements of §10-111(a).	lar Heat Gain
\$117: Exterior doors and windows are weather-stripped; all joints and penetrations are caulked and sealed.	
\$118(a): Insulation specified or installed meets Standards for Insulating Material. Indicate type and include on CF-8R Fig. 118(i): The thermal emittance and solar reflectance values of the cool roofing material meets the requirements of \$118 installation of a Cool Root is specified on the CF-1R Form.	
§150(a): Minimum R-19 insulation in wood-frame ceiling or equivalent U-factor.	
\$150(b): Loose fill insulation shall conform with manufacturer's installed design labeled R-Value.	
§150(c): Minimum R-13 insulation in wood-frame wall or equivalent U-factor.	
§150(d): Minimum R-13 insulation in raised wood-frame floor or equivalent U-factor,	
\$150(f): Air retarding wrap is tested, labeled, and installed according to ASTM E1677-95(2000) when specified on the C	F-1R Form.
§150(g): Mandatory Vapor barrier installed in Climate Zones 14 or 16. 150(i): Water absorption rate for slab edge insulation material alone without facings is no greater than 0.3%; water vap at a is no greater than 2.0 perminch and shall be protected from physical damage and UV light deterioration.	or permeance
Fireplaces, Decorative Gas Appliances and Gas Log Measures:	
§150(e)18: Masonry or factory-built freplaces have a closable metal or glass door covering the entire opening of the finistic (e)150(e)18: Masonry or factory-built freplaces have a combustion outside air intake, which is at least six equare inches equipped with a with a readily accessible, operable, and tight-fitting damper and or a combustion-air control device. \$150(e)2: Continuous bunning pilot lights and the use of indoor air for cooling a firebox jacket, when that indoor air is veutisfied of the building, are prohibited.	in area and is
Space Conditioning, Water Heating and Plumbing System Measures:	
\$110-\$113: HVAC equipment, water heaters, showerheads, faucets and all other regulated appliances are certified by t Commission.	000000000000000000000000000000000000000
§113(c)5: Water heating recirculation loops serving multiple dwelling units and High-Rise residential occupancies meet valve, backflow prevention, pump isolation valve, and recirculation loop connection requirements of §113(c)5.	
§115: Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces, household cooking appliances with an electrical supply voltage connection with pilot lights that consume less than 150 Btu/hr are exempt), spa heaters.	
150(h): Heating and/or cooling loads are calculated in accordance with ASHRAE, SMACNA or ACCA.	
\$150(i): Heating systems are equipped with thermostats that meet the setback requirements of Section 112(c).	
§150(j)1A: Storage gas water heaters rated with an Energy Factor no greater than the federal minimal standard are extent insulation having an installed thermal resistance of R-12 or greater.	
\$150(i) B: Unfired storage tanks, such as storage tanks or backup tanks for solar water-heating system, or other indireanks have R-12 external insulation or R-16 internal insulation where the internal insulation R-value is indicated on the cank.	
§150(j)2: First 5 feet of hot and cold water pipes closest to water heater tank, non-recirculating systems, and entire leng ecirculating sections of hot water pipes are insulated per Standards Table 150-B.	
§150(I)2: Cooling system piping (suction, chilled water, or brine lines), and piping insulated between heating source and water tank shall be insulated to Table 150-9 and Equation 150-A. §150(I)2: Pipe insulation for steam hydronic heating systems or hot water systems >15 psi, meets the requirements of \$23-A.	
\$150()3A: Insulation is protected from damage, including that due to sunlight, moisture, equipment maintenance, and v \$150()3A: Insulation for chilled water piping and refrigerant suction lines includes a vapor retardant or is enclosed entinonationed space.	

Ionorio Garcia 8/30/2012	Honorio Garcia	8/30/2012
NOTE; Low-rise residential buildings subject to the Standards must comply with all applicable mandatory measures listed, regardless of	1.1367791700 (3674000000	
ite compliance approach used. More stringant energy measures listed on the Certificate of Compliance (CF-IR, CF-IR-ADD, or CF- IR-ALT Form) shall supersede the litems marked with an asteriek (*) below. This Mandatory Measures Summary shall be incorporated to the permit documents, and the applicable features shall be considered by all parties as minimum component performance pecifications whether they are shown elsewhere in the documents or in this summary. Submit all applicable sections of the MF-IR orm with plans.	§150(m)1: All air-distribution system ducts and plenums installed, are sealed and insulated to n 601, 602, 603, 604, 605 and Standard 6-5; supply-air and return-air ducts and plenums are inst. 4.2 or enclosed entirely in conditioned space. Openings shall be sealed with mastic, tape or oif applicable requirements of Ut. 181, Ut. 181A, or Ut. 181B or aerosol sealant that meets the required to seal openings or greater than 14 fluch, the combination of mastic and either meeh or tape	lated to a minimum installed level of R- er duct-closure system that meets the uirements of UL 723. If mastic or tape is
Building Envelope Measures:	§150(m)1: Building cavities, support platforms for air handlers, and plenums defined or constru	
\$116(a)1: Doors and windows between conditioned and unconditioned spaces are manufactured to limit air leakage. \$116(a)4: Fencestration products (except field-fabricated windows) have a label listing the certified U-Factor, certified Solar Heat Gain Deficient (SHGC), and infiltration that meets the requirements of \$10.111(a).	sheet metal, duct board or flexible duct shall not be used for conveying conditioned air. Building contain ducts. Ducts installed in cavities and support platforms shall not be compressed to caus of the ducts.	cavities and support platforms may be reductions in the cross-sectional area
117: Exterior doors and windows are weather-stripped; all joints and penetrations are caulked and sealed.	§150(m)2D: Joints and seams of duct systems and their components shall not be sealed with curiess such tape is used in combination with mastic and draw bands.	oth back rubber adhesive duct tapes
118(a): Insulation specified or installed meets Standards for Insulating Material. Indicate type and include on CF-6R Form.	§150(m)7: Exhaust fan systems have back draft or automatic dampers.	
118(i): The thermal emittance and solar reflectance values of the cool roofing material meets the requirements of §118(i) when the stallation of a Cool Roof is specified on the CF-1R Form.	§150(m)8: Gravity ventilating systems serving conditioned space have either automatic or read dampers.	ly accessible, manually operated
§150(a): Minimum R-19 insulation in wood-frame ceiling or equivalent U-factor.	§150(m)9: Insulation shall be protected from damage, including that due to sunlight, moisture, e	
150(b): Loose fill insulation shall conform with manufacturer's installed design labeled R-Value.	Cellular foam insulation shall be protected as above or painted with a coating that is water retar radiation that can cause degradation of the material.	dant and provides shielding from solar
150(c): Minimum R-13 insulation in wood-frame wall or equivalent U-factor.		
150(d): Minimum R-13 insulation in raised wood-frame floor or equivalent U-factor,	§150(m)10: Flexible ducts cannot have porous inner cores. §150(o): All dwelling units shall meet the requirements of ANSI/ASHRAE Standard 62.2-2007 \	entilation and Acceptable Indoor Air
150(f): Air retarding wrap is tested, labeled, and installed according to ASTM E1677-95(2000) when specified on the CF-1R Form.	Quality in Low-Rise Residential Buildings. Window operation is not a permissible method of pro	viding the Whole Building Ventilation
(150(g): Mandatory Vapor barrier installed in Climate Zones 14 or 16.	required in Section 4 of that Standard.	
150(I): Water absorption rate for slab edge insulation material alone without facings is no greater than 0.3%; water vapor permeance	Pool and Spa Heating Systems and Equipment Measures:	
tte is no greater than 2.0 permilinch and shall be protected from physical damage and UV light deterioration, irreplaces, Decorative Gas Appliances and Gas Log Measures:	§114(a): Any pool or spa heating system shall be certified to have: a thermal efficiency that con Regulations; an on-off switch mounted outside of the heater; a permanent weatherproof plate of	
[150(e)1A: Masonry or factory-built fireplaces have a closable metal or glass door covering the entire opening of the firebox. [150(e)1B: Masonry or factory-built fireplaces have a combustion outside air intake, which is at least six square inches in area and is	shall not use electric resistance heating or a pilot light. §114(b)1: Any pool or spa heating equipment shall be installed with at least 36" of pipe between and return lines, or built-up connections for future solar heating.	filter and heater, or dedicated suction
quipped with a with a readily accessible, operable, and tight-fitting damper and or a combustion-air control device. 150(e)2: Continuous buming pilot lights and the use of indoor air for cooling a firebox jacket, when that indoor air is vented to the utside of the building, are prohibited.	§114(b)2: Outdoor pools or spas that have a heat pump or gas heater shall have a cover. §114(b)3: Pools shall have directional inlets that adequately mix the pool water, and a time swit	ch that will allow all pumps to be set or
Space Conditioning, Water Heating and Plumbing System Measures:	programmed to run only during off-peak electric demand periods.	
110-§113: HVAC equipment, water heaters, showerheads, faucets and all other regulated appliances are certified by the Energy commission.	§150(p): Residential pool systems or equipment meet the pump sizing, flow rate, piping, filters, Residential Lighting Measures:	and valve requirements of §150(p).
113(c)5: Water heating recirculation loops serving multiple dwelling units and High-Rise residential occupancies meet the air release raive, backflow prevention, pump isolation valve, and recirculation loop connection requirements of §113(c)5.	§150(k)1: High efficacy luminaires or LED Light Engine with Integral Heat Sink has an efficacy contained in Table 150-C and is not a low efficacy luminaire as specified by §150(k)2.	hat is no lower than the efficacies
§115: Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces, household cooking appliances appliances with an electrical supply voltage connection with pilot lights that consume less than 150 Btuhr are exempt), and pool and go a heaters.	§150(k)3: The wattage of permanently installed luminaires shall be determined as specified by §150(k)4: Ballasts for fluorescent lamps rated 13 Watts or greater shall be electronic and shall it	§130(d). nave an output frequency no less than
150(h); Heating and/or cooling loads are calculated in accordance with ASHRAE, SMACNA or ACCA.	20 kHz. §150(k)5: Permanently installed night lights and night lights integral to a permanently installed lights.	uninging or exhaust fan chall contain
150(i): Heating systems are equipped with thermostats that meet the setback requirements of Section 112(c).	only high efficacy lamps meeting the minimum efficacies contained in Table 150-C and shall no	t contain a line-voltage socket or line-
150()1A: Storage gas water heaters rated with an Energy Factor no greater than the federal minimal standard are externally wrapped ifth insulation having an installed thermal resistance of R-12 or greater.	voltage lamp holder; OR shall be rated to consume no more than five watts of power as determ medium screw-base socket.	ined by §130(d), and shall not contain a
(150(j)18: Unfired storage tanks, such as storage tanks or backup tanks for solar water-heating system, or other indirect hot water	§150(k)6: Lighting integral to exhaust fans, in rooms other than kitchens, shall meet the applica	ble requirements of §150(k).
anks have R-12 external insulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the	§150(k)7: All switching devices and controls shall meet the requirements of §150(k)7.	AND THE PROPERTY OF THE PROPER
in. 150(j)2: First 5 feet of hot and cold water pipes closest to water heater tank, non-recirculating systems, and entire length of ecirculating sections of hot water pipes are insulated per Standards Table 150-B.	§150(k)8: A minimum of 50 percent of the total rated wattage of permanently installed lighting in EXCEPTION: Up to 50 watts for dwelling units less than or equal to 2,500 ft so watts for dw exempt from the 50% high efficacy requirement when: all low efficacy luminaires in the kitchen.	velling units larger than 2,500 ftz may be
\$150(j)2: Cooling system piping (suction, chilled water, or brine lines),and piping insulated between heating source and indirect hot vater tank shall be insulated to Table 150-B and Equation 150-A.	exempt from the 50% high efficacy requirement when: all low efficacy luminaires in the sensor, dimmer, energy management system (EMCS), or a multi-scene programmable control luminaires in garages, laundry rooms, closets greater than 70 square feet, and utility rooms are	system; and all permanently installed
\$150(j)2: Pipe insulation for steam hydronic heating systems or hot water systems >15 psi, meets the requirements of Standards Table 23-A.	manual-on occupant sensor. §150(k)9: Permanently installed lighting that is internal to cabinets shall use no more than 20 w	
(150(j)3A: Insulation is protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. 1150(j)3A: Insulation for chilled water piping and refrigerant suction lines includes a vapor retardant or is enclosed entirely in conditioned space.	\$ 100(s)s. Fer illamency insured ligning that is internet to causiness shall use no more than 20 will illuminated cabinet.	and or poster per made soon or
(150(j)4: Solar water-heating systems and/or collectors are certified by the Solar Rating and Certification Corporation.		
	EnergyPro 5.1 by EnergySoft User Number: 5581 RunCode: 2012-08-30709:29:09	D: 082912 Page 10 of 12
EnergyPro 5.1 by EnergySoft User Number: 5581 RunCode: 2012-08-30T09:29:09 ID: 082912 Page 9 of 12		

CERTIFICATE OF COMPLIANCE: Residential (Part 5 of 5) CF-1R MANDATORY MEASURES SUMMARY: Residential (Page 1 of 3) MF-1R Proper Name 2

HOUSE **GARCIA'S** CONSULTANT: REVISIONS: DATE 09/04/2012 SCALE: AS SPECIFIED
DRAWN & PREPARED BY: MARCO A. LAUREANO SHEET: T-24-1

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HOUSE PLANS & DESIGN:

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