BUILDING ENERGY ANALYSIS REPORT

PROJECT:

600 ADU

Orland, CA 95963

Project Designer:

Jackson and Sands Engineering Inc 1250 East Ave #10 Chico, CA 95926

Report Prepared by:

Jackson & Sands Engineering 1250 East Ave Suite 10 Chico, CA 95926 5307157184

Job Number:

23-XXX

Date:

6/16/2023

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards.

This program developed by EnergySoft, LLC - www.energysoft.com.

Project Name: 600 ADU

Calculation Description: Title 24 Analysis

Calculation Date/Time: 2023-05-15T14:11:33-07:00

Input File Name: Walnut Slab.ribd22x

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GENER	AL INFORMATION										
01	Project Name	600 ADU		6							
02	Run Title	Title 24 Analysis	24 Analysis								
03	Project Location	_									
04	City	Orland	05	Standards Version	2022						
06	Zip code	95963	07	Software Version	EnergyPro 9.1						
08	Climate Zone	11	09	Front Orientation (deg/ Cardinal)	All orientations						
10	Building Type	Single family	11	Number of Dwelling Units	1						
12	Project Scope	Newly Constructed	13	Number of Bedrooms	1						
14	Addition Cond. Floor Area (ft ²)	0	15	Number of Stories	1						
16	Existing Cond. Floor Area (ft ²)	n/a	17	Fenestration Average U-factor	0.28						
18	Total Cond. Floor Area (ft ²)	598	19	Glazing Percentage (%)	18.60%						
20	ADU Bedroom Count	n/a									
COMPL	IANCE RESULTS	0									

COMPLIANCE RE	SULTS
01	Building Complies with Computer Performance
02	This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.
03	This building incorporates one or more Special Features shown below

Features .

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Registration Date/Time:

HERS Provider:

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ERGY DESIGN RATINGS		Energy Design Ratings			Compliance Margins	
	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)
Standard Design	35.1	41.1	36.6		LL	
	·	Propose	d Design			
North Facing	30.2	36.1	33.6	4.9	5	3
East Facing	30.1	35.6	33.3	5	5.5	3.3
South Facing	30	35.5	33.3	5.1	5.6	3.3
West Facing	30.2	36.3	33.7	4.9	4.8	2.9
	·	RESULT	³ : PASS		•	
fficiency EDR includes improvements lik Total EDR includes efficiency and demand Building complies when source energy, e Standard Design PV Capacity: 2.03 k	d response measures such as p fficiency and total compliance	photovoltaic (PV) system a	nd batteries	et load hour limits are r	not exceeded	

th (2.03 kWdc) Ease to

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ENERGY USE SUMMARY

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Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	5.28	23.25	4.59	36.48	0.69	-13.23
Space Cooling	2.37	52.19	1.67	39.31	0.7	12.88
IAQ Ventilation	0.42	4.48	0.42	4.48	0	0
Water Heating	3.99	39.73	2.31	24.87	1.68	14.86
Self Utilization/Flexibility Credit				0		0
North Facing Efficiency Compliance Total	12.06	119.65	8.99	105.14	3.07	14.51
Space Heating	5.28	23.25	4.58	36.21	0.7	-12.96
Space Cooling	2.37	52.19	1.63	38.05	0.74	14.14
IAQ Ventilation	0.42	4.48	0.42	4.48	0	0
Water Heating	3.99	39.73	2.31	24.87	1.68	14.86
Self Utilization/Flexibility Credit				0		0
East Facing Efficiency	12.06	119.65	8.94	103.61	3.12	16.04

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Compliance Total

Registration Date/Time:

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NERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	5.28	23.25	4.51	35.53	0.77	-12.28
Space Cooling	2.37	52.19	1.64	38.51	0.73	13.68
IAQ Ventilation	0.42	4.48	0.42	4.48	0	0
Water Heating	3.99	39.73	2.31	24.87	1.68	14.86
Self Utilization/Flexibility Credit			C C C C C C C C C C C C C C C C C C C	0		0
South Facing Efficiency Compliance Total	12.06	119.65	8.88	103.39	3.18	16.26
Space Heating	5.28	23.25	4.53	35.82	0.75	-12.57
Space Cooling	2.37	52.19	1.71	40.33	0.66	11.86
IAQ Ventilation	0.42	4.48	0.42	4.48	0	0
Water Heating	3.99	39.73	2.31	24.87	1.68	14.86
Self Utilization/Flexibility Credit		C		0		0
West Facing Efficiency Compliance Total	12.06	119.65	8.97	105.5	3.09	14.15
	G	7				

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ENERGY USE INTENSITY				
	Standard Design (kBtu/ft ² - yr)	Proposed Design (kBtu/ft ² - yr)	Compliance Margin (kBtu/ft ² - yr)	Margin Percentage
North Facing	·			
Gross EUI ¹	33.41	28.55	4.86	14.55
Net EUI ²	15.77	10.91	4.86	30.82
East Facing	·		· · · ·	
Gross EUI ¹	33.41	28.48	4.93	14.76
Net EUI ²	15.77	10.84	4.93	31.26
South Facing				
Gross EUI ¹	33.41	28.39	5.02	15.03
Net EUI ²	15.77	10.75	5.02	31.83
West Facing				
Gross EUI ¹	33.41	28.49	4.92	14.73
Net EUI ²	15.77	10.86	4.91	31.14
Notes	. 6			

1. Gross EUI is Energy Use Total (not including PV) / Total Building Area.

2. Net EUI is Energy Use Total (including PV) / Total Building Area.

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		y515		input i								
REQUIRED PV SYS	TEMS											
01 02 03				05	06	07	08	09	10	11	12	
DC System Size (kWdc)	Excention I Module Type I Array Type I Power		Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)		
2.03	2.03 NA Standard (14-17%) Fixed		none	true	150-270	n/a	n/a	<=7:12	96	98		

REQUIRED SPECIAL FEATURES

The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.

- Insulation below roof deck
- Window overhangs and/or fins
- Variable capacity heat pump compliance option (verification details from VCHP Staff report, Appendix B, and RA3)
- Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed

HERS FEATURE SUMMARY

The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry

• Indoor air quality ventilation

• Kitchen range hood

Verified Refrigerant Charge

• Airflow in habitable rooms (SC3.1.4.1.7)

- Verified HSPF2
- Verified heat pump rated heating capacity
- Wall-mounted thermostat in zones greater than 150 ft2 (SC3.4.5)
- Ductless indoor units located entirely in conditioned space (SC3.1.4.1.8)

BUILDING - FEATURES INFORMA	TION					
01	02	03	04	05	06	07
Project Name Conditioned Floor Area		Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
600 ADU	598	1	1	1	0	1

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ZONE INFORMATI	ON									6				
01		02		03		04	4		05			06		07
Zone Nam	e	Zone Type	HVAC	System Name	e z	Zone Floor Area (ft ²)			Avg. Ceiling	Height	Wate	r Heating Sy	/stem 1	Status
Zone 1		Conditioned	HV	AC System1		598			9		DHW Sys 1		L	New
OPAQUE SURFACE	S							-						
01		02	0	3		04		05	06		07		7	08
Name		Zone	Constr	uction	Az	timuth	o	Orientation		Gross Area (ft ²)		Window and Door Area (ft2)		Tilt (deg)
Front Wall Zone 1		Zone 1	R-21	Wall		0	6	Front		238.5		44	1	90
Left Wall		Zone 1	R-21	Wall		90		Left		225		40		90
Rear Wall		Zone 1	R-21	Wall		180		Back 23		238.5	8.5 1		5	90
Right Wall		Zone 1	R-21	Wall		270		Right		225		32		90
Roof		Zone 1	R-38 Rc	of Attic		n/a		n/a		598		n/a		n/a
ATTIC					-0									
01		02	0	3	04			05		06		07		08
Name	(Construction	Ту	pe	Roof R	ise (x in 12	2) Roo	f Reflecta	nce Ro	e Roof Emittance		e Radiant Barrier		Cool Roof
Attic Zone 1	Att	tic RoofZone 1	Venti	lated		6		0.1	0.85			N	D	No
							•							
FENESTRATION /	GLAZING	1												
01	02	03	04	05	06	07	08	09	10	11		12	13	14
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-facto Source		SHGC	SHGC Sourc	e Exterior Shading
Window	Window	Front Wall	Front	0	3	4	1	12	0.28	NFRC		0.2	NFRC	Bug Screen
Window 2	Window	Front Wall	Front	0	3	4	1	. 12 0		NFRC	:	0.2 NFRC		Bug Screen
Window 3	Window	Front Wall	Front	0	5	4	1	20	0.28	NFRC	:	0.2	NFRC	Bug Screen

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FENESTRATION /	GLAZING															
01	02	03		04	05	06	07	08	09	10	11	12	13		14	
Name	Туре	Surfac	e Orie	ntation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC So	urce Ext	Exterior Shading	
Window 4	Window	Left W	all	Left	90	5	4	1	20	0.28	NFRC	0.2	NFRC	:	Bug Screen	
Window 5	Window	Rear W	'all I	Back	180	2	3	1 6 0.28 NFRC 0.2 NFRC					:	Bug Screen		
Window 6	Window	Rear W	'all I	Back	180	3	3	1 9 0.28 NFRC 0.2 NFRC					:	Bug Screen		
Window 7	Window	Right W	/all F	Right	270	4	4	1 16 0.28 NFRC 0.2 NFF					NFRC	:	Bug Screen	
Window 8	Window 8 Window Right Wall Right 270 4					4	1	16	0.28	NFRC	0.2	NFRC	2	Bug Screen		
OPAQUE DOORS								b								
	01				02					03				04		
Name				s	ide of Buildi	ng				Area (ft ²)		-		actor		
	Door				Left Wall									0.2		
						6				-				-		
OVERHANGS AND	D FINS				4										-	
01		02	03	04	05	0	6	07	08	09	10	11	12	13	14	
				Overhan	g 🖉			Left Fin				Right Fin				
Windo	w	Depth	Dist Up	Left Exte	nt Right Extent		Ht.	Depth	Top U	Dist L	Bot Up	Depth	Тор Uр	Dist R	Bot Up	
Windo	w	2	0.1	2	2	(D	0	0	0	0	0	0	0	0	
Window	v 2	2	0.1	2	2	(D	0	0	0	0	0	0	0	0	
Window	v 3	2	0.1	2	2	(D	0	0	0	0	0	0	0	0	
Window	v 4	2	0.1	2	2	(D	0	0	0	0	0	0	0	0	
Window	v 5	2	0.1	2	2	(D	0	0	0	0	0	0	0	0	

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OVERHANGS AND FINS													
01	02	03	04	05	06	07	08	09	10	11	L 12	13	14
			Overhang		·		Left	Fin			Ri	sht Fin	•
Window	Depth	Dist Up	Left Extent	Right Extent	Flap Ht.	Depth	Тор Uр	Dist L	Bot U	Dep	oth Top Up	Dist R	Bot Up
Window 6	2	0.1	2	2	0	0	0	0	0	0	0	0	0
Window 7	2	0.1	2	2	0	0	0	0	0	0	0	0	0
Window 8	2	0.1	2	2	0	0	0	0	0	0	0	0	0
SLAB FLOORS					•	C				•		•	
01	02		03		04		05		06		07		08
Name	Zone		Area (ft ²)	Pe	rimeter (ft)		Insul. R-value nd Depth	-	sul. R-val I Depth	ue Ca	rpeted Fraction	He	ated
Slab-on-Grade	Zone 1		598		103		none		0		80%		No
OPAQUE SURFACE CONS	TRUCTIONS				6								
01	02		03		04		05	06		07		08	
Construction Name	Surface Typ	e Co	nstruction Typ	e C	Framing		Total Cavity R-value	Interior / I Contine R-val	Jous	U-factor	As	sembly Layers	;
R-21 Wall	Exterior Wal	ls Wo	ood Framed Wa	all	2x6 @ 16 in. (D. C.	R-21	None /	None	0.069	Cavity	nish: Gypsum ' Frame: R-21 , Finish: 3 Coat :	/ 2x6
Attic RoofZone 1	Attic Roofs	G	Wood Framed Ceiling		2x4 @ 24 in. (D. C.	R-19	None	/0	0.059	Ro Siding/ Cavity /	nt Roof (Aspha of Deck: Wood sheathing/ded Frame: R-13.0 oof Joists: R-6.	d cking / 2x4

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OPAQUE SURFACE CO	NSTRUCTIONS										5			
01	0	2	03			04		05		06	5	07		08
Construction Name	e Surfac	е Туре	Constructio	n Type	F	raming		Total Cavi R-value	ty	Interior / Contin R-va	uous	U-facto	r Asser	nbly Layers
R-38 Roof Attic	Ceilings att		Wood Fra Ceilin		2x10 (@ 24 in. O. ا	C.	R-38	5	None /	None	0.026	Cavity / Frai	loists: R-13.9 insul. ne: R-24.1 / 2x10 h: Gypsum Board
BUILDING ENVELOPE	- HERS VERIFICA							9						
01		-	02			0	з 🔽				04			05
Quality Insulation In	stallation (QII)	High R-va	alue Spray Foan	n Insulatio	on Buil	ding Envelo	ope Air Le	akage			CFM50			CFM50
Not Requi	ired		Not Required			N,	/A				n/a			n/a
WATER HEATING SYST	EMS						, 							
01	02		03		04	0)5		06		07	,	08	09
Name	System Type	Dist	ribution Type	Water H	eater Name	Number	of Units	Sola S ¹	r Hea ysten	-	Comı Distrib		HERS Verification	Water Heater Name (#)
DHW Sys 1	Domestic Hot Water (DHW)		Standard	DHW	Heater 1	-	1		n/a		Noi	ne	n/a	DHW Heater 1 (1)
[]														
WATER HEATERS - NEE	EA HEAT PUMP						1							
01	02		03	6	04			05			06		07	08
Name	# of Un	its	Tank Vol. (۽	gal)	NEEA Hea Brar			Heat Pum Model	p	Tank	Location	D	uct Inlet Air Source	Duct Outlet Air Source
DHW Heater 1	1		40		DirectE	nergy	DirectE	nergyECEP 015	PH4	С	Outside		Zone 1	Zone 1



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WATER HEATING - HERS VERIFICATION

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01	0	2		03			04			05			06		07
Name	Pipe Ins	sulation	Ра	rallel Pipi	ing	Comp	act Distrib	oution	Co	mpact Dist Type		Recircula	tion Control	Show	er Drain Water Heat Recovery
DHW Sys 1 - 1/1	Not Re	quired	N	ot Require	ed	N	lot Require	d		None		Not R	equired		Not Required
SPACE CONDITIONIN	G SYSTEMS								0						
01	02	03			04		05)	06		07	08		09
Name	System Type	Heating Uni	t Name	-	g Equipmo Count	ent Coo	ling Unit N	ame Co	-	Equipmen Count	t Fai	n Name	Distribution N	Name	Required Thermostat Type
HVAC System1	Heat pump heating cooling	Heat Pump 1	System		1	Hea	t Pump Sys 1	tem		1		n/a	n/a		Setback
IVAC - HEAT PUMPS											· · · · · · · · · · · · · · · · · · ·				
01	02	03	04		05	06	07	08		09	10	11	12		13
				l	Heatin	g			(Cooling					
Name	System Type	Number of Units	Efficie Typ	ency H	ISPF / SPF2 / COP	Cap 47	Cap 17	Efficieı Type		SEER / SEER2	EER / EER / CEER	Zonally Controlled	Compressor Type	н	ERS Verification
Heat Pump System 1	VCHP-ductless	1	HSPI	F2	8.2	17600	14608	EER2SE	ER2	14	11.7	Not Zonal	Single Speed		eat Pump System 1-hers-htpump

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HVAC HEAT PUMPS -	HERS VERIFICATION	4	0					
01	02	03	04	05	06	07	08	09
Name	Verified Airflow	Airflow Target	Verified EER/EER2	Verified SEER/SEER2	Verified Refrigerant Charge	Verified HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-hers-htpump	Not Required	0	Not Required	Not Required	Yes	No	Yes	Yes

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VARIABLE CAPACITY HEAT PUMP C	OMPLIANCE OPTI	ON - HERS VERIFI	CATION			.9			
01	02	03	04	05	06	07	08	09	10
Name	Certified Low-Static VCHP System	Airflow to Habitable Rooms	Ductless Units in Conditioned Space	Wall Mount Thermostat	Air Filter Sizing & Pressure Drop Rating	Ducts in	Minimum Airflow per RA3.3 and SC3.3.3.4.1	Certified non-continuous Fan	Indoor Fan not Running Continuously
Heat Pump System 1	Not required	Required	Required	Required	Not required	Not required	Not required	Not required	Not required

INDOOR AIR QUALIT								
01	02	03	04	05	06	07	08	09
Dwelling Unit	Airflow (CFM)	(W/CFM)	IAQ Fan Type	Includes Heat/Energy Recovery?	IAQ Recovery Effectiveness - SRE	Includes Fault Indicator Display?	HERS Verification	Status
SFam IAQVentRpt	32	0.35	Exhaust	No	n/a	No	Yes	
		0.35	cate					

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	. 6
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name:	Documentation Author Signature:
Company: Jackson & Sands Engineering	Signature Date: 6/16/2023
Address:	CEA/ HERS Certification Identification (If applicable):
1250 East Ave Suite 10	. 6
City/State/Zip:	Phone:
Chico, CA 95926	5307157184
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury, under the laws of the State of California:	
	Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. e are consistent with the information provided on other applicable compliance documents, worksheets,
Responsible Designer Name:	Responsible Designer Signature:
Company: Jackson and Sands Engineering Inc	Date Signed:
Address: 1250 East Ave #10	License:
City/State/Zip: Chico, CA 95926	Phone:
Contraction of the second seco	
Registration Number: Regist	ration Date/Time: HERS Provider:

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Schema Version: rev 20220901

HERS Provider:

RES	IDENTIA		SURES S	UMM	ARY					RMS-1
Project N 600 AL	DU				ding Type	□ Multi I	Family 🛛	Addition Alor Existing+ Ad	ne Idition/Alteration	Date 6/16/202
Project A						ergy Climate		I Cond. Floor A		# of Unit
Orla				C	ACIIM	ate Zone	11	598	n/a	1
	LATION truction	Туре		Cav	vity	Area (ft ²)	Spec	ial Featur	es	Status
Vall	Wood Fram			R 20		796	•			New
Door	Opaque Do	or		R-5		20				New
Roof	Wood Fram	ned Attic		R 38		598	Add=R-19.0			New
Slab	Unheated S	Slab-on-Grade		- no in:	sulation	598	Perim = 103			New
FENE	STRATIO	N	Total Area:	111	Clozing	Dereentees	· 18.6%	Now/Altorod		0.28
		Area(<i>ft</i> ²)		HGC	Overh	Percentage	idefins	Exterior	Average U-Factor:	Status
Front (N)		44.0	0.280	0.20	2.0	<u> </u>	one	N/A	5114400	New
.eft (E)		20.0	0.280	0.20	2.0		one	N/A		New
Rear (S)		15.0	0.280	0.20	2.0		one	N/A		New
Right (W	<i>(</i>)	32.0	0.280	0.20	2.0	n	one	N/A		New
	CSYSTEM									
Qty.	Heating		Min. Eff		oling		Min. Ef		<u>Thermostat</u>	Status
			Min. Eff 8.20 HSPF2		oling it Heat Pu		Min. Ef 14.0 SEEF		Thermostat tback	Status New
Qty. 1 HVAC	Heating Electric Heat	Pump BUTION	8.20 HSPF2	2 Spl	it Heat Pu	·	14.0 SEEF	22 Se	tback Duct	New
Qty. 1 HVAC Locat	Heating Electric Heat	Pump BUTION He		2 Spl		·		22 Se	tback	
Qty. 1 HVAC Locat IVAC Sy WATE Qty.	Heating Electric Heat	Pump BUTION He Ductle	8.20 HSPF2 ating ss / with Fan Gall	2 Spl	oling tless Min.	Duct n/a Eff D	14.0 SEEF	32 Se	back Duct R-Value	New Status Status Status
Qty. 1 HVAC Locat	Heating Electric Heat	Pump BUTION He Ductle	8.20 HSPF2 ating ss / with Fan	2 Spl Co Duc	it Heat Pu oling tless	Duct n/a Eff D	14.0 SEEF	32 Se	back Duct R-Value	New Status New

