BUILDING ENERGY ANALYSIS REPORT PROJECT: APN Pleasanton, CA 94588 **Project Designer:** Pleasanton, CA 94566 Report Prepared by: Job Number: Date: 2/15/2022 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 2019 Building Energy Efficiency Standards.

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RESII	DENTIA	L MEAS	URES S	UMM <i>A</i>	ARY					RMS-1
Project Na	ame			Build	ling Type			Addition Alone Existing+ Additior	n/Alteration	Date 2/15/2022
Project Ac	ldress			Calif	ornia Ene		•	I Cond. Floor Area	Addition	# of Units
				C	A Clim	ate Zor	ne La la		n/a	1
INSUL	ATION					Area				
Const	ruction	Туре		Cav	ity	(ft²)	Spec	ial Features		Status
Wall	Wood Frame	ed		R 21		4,203	Add=R-5.0			New
Door	Opaque Doo	or		- no ins	sulation	28				New
Roof	Wood Frame	ed Attic		R 38			Add=R-19.0			New
Slab		lab-on-Grade			sulation		Perim = 264	'		New
Demising	Wood Frame	ed Rafter		- no ins	sulation					New
CENIC	STRATIO	NI .		074	I		40.004	T		0.30
Orient		•	Total Area: U-Fac S	871 HGC	Over	Percenta	_{ge:} 18.0% Sidefins	New/Altered Avera		Status
Front (E)	anon A	251.0	0.300	0.23	none	nany	none	N/A	uuco	New
.eft (S)		143.0	0.300	0.23	none		none	N/A		New
Rear (W)		319.0	0.300	0.23	none		none	N/A		New
Right (N)		158.0	0.300	0.23	none		none	N/A		New
	SYSTEM Heating	S	Min. Eff	Co	oling		Min. Ef	f Ther	mostat	Status
	Central Furna	ce	96% AFUE		t Air Con	ditioner	16.0 SEE			New
HVAC Locati	DISTRIB on		ting	Co	oling	Duc	t Locatio		ouct -Value	Status
HVAC Sys	stem	Ducted		Duct	ed	Attic		8	3.0	New
	R HEATII Type	NG	Gal	lons	Min.	Eff	Distribut	ion		Status
1	Small Instanta	aneous Gas	1		0.96		Standard			New
	o 8.3 by Energ	avSoft User	Number: 4441					ID: R22006N		Page 14 of 2



2019 Low-Rise Residential Mandatory Measures Summary

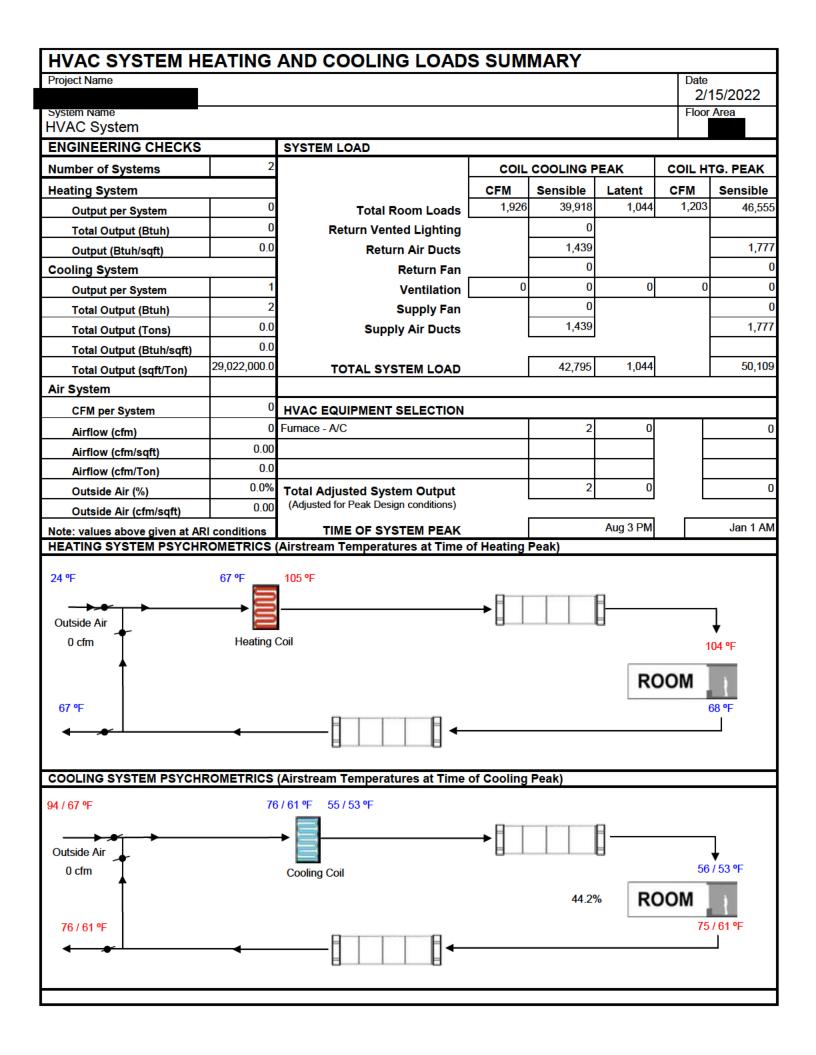
NOTE: Low-rise residential buildings subject to the Energy Standards must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information. *Exceptions may apply. (01/2020)

Quilding Envolon	a Managurani
Building Envelope	
§ 110.6(a)1:	Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283 or AAMA/WDMA/CSA 101/I.S.2/A440-2011.*
§ 110.6(a)5:	Labeling. Fenestration products and exterior doors must have a label meeting the requirements of § 10-111(a).
§ 110.6(b):	Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped.*
§ 110.7:	Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather stripped.
§ 110.8(a):	Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHGS).
§ 110.8(g):	Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g).
§ 110.8(i):	Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(i) and be labeled per §10-113 when the installation of a cool roof is specified on the CF1R.
§ 110.8(j):	Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affair
§ 150.0(a):	Ceiling and Rafter Roof Insulation. Minimum R-22 insulation in wood-frame ceiling; or the weighted average U-factor must not exceed 0.043. Minimum R-19 or weighted average U-factor of 0.054 or less in a rafter roof alteration. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a continuous roof or ceiling which is sealed to limit infiltration and exfiltration as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceiling.*
§ 150.0(b):	Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
§ 150.0(c):	Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing of have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102. Masonry walls must meet Tables 150.1-A or B.*
§ 150.0(d):	Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor.*
§ 150.0(f):	Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facings, no greater than 0.3 percent; have a water vapor permeance no greater than 2.0 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).
§ 150.0(g)1:	Vapor Retarder. In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to § 150.0(d).
§ 150.0(g)2:	Vapor Retarder. In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.
§ 150.0(q):	Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.58; or the weighted average U-factor of all fenestration must not exceed 0.58.*
Fireplaces, Decor	ative Gas Appliances, and Gas Log Measures:
§ 110.5(e)	Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.
§ 150.0(e)1:	Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.
§ 150.0(e)2:	Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device.*
§ 150.0(e)3:	Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control.*
Space Conditioni	ng, Water Heating, and Plumbing System Measures:
	Certification. Heating, ventilation and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated
§ 110.0-§ 110.3:	appliances must be certified by the manufacturer to the California Energy Commission.*
§ 110.2(a):	HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-K.*
§ 110.2(b):	Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone; and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating.*
§ 110.2(c):	Thermostats. All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat.*
§ 110.3(c)4:	Water Heating Recirculation Loops Serving Multiple Dwelling Units. Water heating recirculation loops serving multiple dwelling units must meet the air release valve, backflow prevention, pump priming, pump isolation valve, and recirculation loop connection requirements of § 110.3(c)4.
§ 110.3(c)6:	Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.
§ 110.5:	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour); and pool and spa heaters
§ 150.0(h)1:	Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residential Comfort System Installation Standards Manual; or the ACCA Manual J using design conditions specified in § 150.0(h)2.



2019 Low-Rise Residential Mandatory Measures Summary

ENERGY COMMISSION	
Requirements for	or Ventilation and Indoor Air Quality:
§ 150.0(o)1:	Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1.
§ 150.0(o)1C:	Single Family Detached Dwelling Units. Single family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow provided at rates determined by ASHRAE 62.2 Sections 4.1.1 and 4.1.2 and as specified in § 150.0(o)1C.
§ 150.0(o)1E:	Multifamily Attached Dwelling Units. Multifamily attached dwelling units must have mechanical ventilation airflow provided at rates in accordance with Equation 150.0-B and must be either a balanced system or continuous supply or continuous exhaust system. If a balanced system is not used, all units in the building must use the same system type and the dwelling-unit envelope leakage must be ≤ 0.3 CFM at 50 Pa (0.2 inch water) per square foot of dwelling unit envelope surface area and verified in accordance with Reference Residential Appendix RA3.8.
§ 150.0(o)1F:	Multifamily Building Central Ventilation Systems. Central ventilation systems that serve multiple dwelling units must be balanced to provide ventilation airflow for each dwelling unit served at a rate equal to or greater than the rate specified by Equation 150.0-B. All unit airflows must be within 20 percent of the unit with the lowest airflow rate as it relates to the individual unit's minimum required airflow rate needed for compliance.
§ 150.0(o)1G:	Kitchen Range Hoods. Kitchen range hoods must be rated for sound in accordance with Section 7.2 of ASHRAE 62.2.
§ 150.0(o)2:	Field Verification and Diagnostic Testing. Dwelling unit ventilation airflow must be verified in accordance with Reference Residential Appendix RA3.7. A kitchen range hood must be verified in accordance with Reference Residential Appendix RA3.7.4.3 to confirm it is rated by HVI to comply with the airflow rates and sound requirements as specified in Section 5 and 7.2 of ASHRAE 62.2.
Pool and Spa Sy	rstems and Equipment Measures:
§ 110.4(a):	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: a thermal efficiency that complies with the Appliance Efficiency Regulations; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating.*
§ 110.4(b)1:	Piping. Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(b)2:	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.
§ 110.4(b)3:	Directional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.
§ 110.5:	Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.
§ 150.0(p):	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves.*
Lighting Measur	res:
§ 110.9:	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9.*
§ 150.0(k)1A:	Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A.
§ 150.0(k)1B:	Blank Electrical Boxes. The number of electrical boxes that are more than five feet above the finished floor and do not contain a luminaire or other device must be no greater than the number of bedrooms. These electrical boxes must be served by a dimmer, vacancy sensor control, or fan speed control.
§ 150.0(k)1C:	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must meet all of the requirements for: insulation contact (IC) labeling; air leakage; sealing; maintenance; and socket and light source as described in § 150.0(k)1C.
§ 150.0(k)1D:	Electronic Ballasts for Fluorescent Lamps. Ballasts for fluorescent lamps rated 13 watts or greater must be electronic and must have an output frequency no less than 20 kHz.
§ 150.0(k)1E:	Night Lights, Step Lights, and Path Lights. Night lights, step lights and path lights are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided they are rated to consume no more than 5 watts of power and emit no more than 150 lumens.
§ 150.0(k)1F:	Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k).*
§ 150.0(k)1G:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8.*
§ 150.0(k)1H:	Light Sources in Enclosed or Recessed Luminaires . Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1I:	Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit no more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed.
§ 150.0(k)2A:	Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(k)2B:	Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems.*
§ 150.0(k)2C:	Interior Switches and Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned ON and OFF.*
§ 150.0(k)2D:	Interior Switches and Controls. Controls and equipment must be installed in accordance with manufacturer's instructions.
§ 150.0(k)2E:	Interior Switches and Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the control is installed to comply with § 150.0(k).
§ 150.0(k)2F:	Interior Switches and Controls. Lighting controls must comply with the applicable requirements of § 110.9.



ZONE LOAD SUMMARY

Project Name

Date 2/15/2022

System Name
HVAC System

Floor Area

ZONE LOAD SUMMARY

				ZONA	L SYSTEM	1			COOLI	NG PEAK		HEATI	NG PEAK		
ZONE NAME	SYSTEM NAME	Mult.	CFM	Sensible	Latent	Heating	OA CFM	Peak Hr	CFM	Sensible	Latent	CFM	Sensible		
Zone 1		1.0						Aug 3 PM	1,098	22,765	580	755	29,24		
Zone 2		1.0					0	Aug 3 PM	828	17,153	464	447	17,31		
		_													
				_	_	_	_		D1.6				46,55		
		T	OTALS	0	0	0	0	0 Aug 3 PM 39,918 1,044							

ROOM LOAD SUMMARY Project Name Date 2/15/2022 System Name HVAC System ROOM LOAD SUMMARY

			ROOI	M COOLING	3 PEAK	COIL	COOLING	PEAK	COIL H	TG. PEAK
Zone Name	Room Name	Mult.	CFM	Sensible	Latent	CFM	Sensible	Latent	CFM	Sensible
Zone 1	Room 1	1	1,098		580		22,765	580	755	
Zone 2	Room 2	1	828	17,153	464	828	17,153	464	447	17,312
	1									

PAGE TOTAL *

1,926	39,918	1,044	1,203	46,555
1,926	39,918	1,044	1,203	46,555

^{*} Total includes ventilation load for zonal systems.

ROOM HEATING PEAK LO	JAD3						
Project Name						Date	
SOOM INTO DAY ATION		550	CAL COMPLETIO	110			2/15/2022
ROOM INFORMATION	Da 4		IGN CONDITIO	N5			1 m 4
Room Name	Room 1		of Peak				Jan 1
Floor Area	ft²	Outd	oor Dry Bulb Tei	mpe	rature		24
Indoor Dry Bulb Temperature	68 °F						
	_				_ 0_		=
Conduction	Area	, L	U-Value	·	ΔT°F	Г	Btu/hr
R-21 Wall w/1" XPS	2,010.0		0.0532		44	=	4
Residential Cooling	564.0	+ ´` ⊢	0.3000		44	= _	7
Nood Door	28.0	┤ ^` ├	0.5000	٠.	44	= _	
R-38 HP Attic	539.0	x	0.0229	X	44	=	
Slab-On-Grade	perim = 264.0	x	0.7300	Х	44	= _	8
R-0 Roof No Attic	2,149.0	x [0.3041	х	0	=	
		х		X		=	
	1	X		X		_	
	1	x		X	i i	_	
	1	x		X		_	
		^		X		-	
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Items shown with an asterisk (*) denote conduc	ction through an interior surf	ace to a	another room		Page To	tal	21
	Č				_		
Infiltration: 1.00 X	1.066 x 2,688 x		10.00 X 0	355	/ 60] x	44	= 7
Schedule Air Sen			ng Height AC		ΔΤ	.——	
Fraction							
TOTAL HOURLY HEAT LOSS FOR F	POOM						20
TOTAL HOURLT REAL LUGG FUR I	LOCIVI						29,2

Date	ROOM HEAT	ING P	EΑ	K LC	AD:	S								
DESIGN CONDITIONS Jan 1 AM	Project Name											Da		200
Room Name	DOOM INFORMAT	1011					LDE	OLON CONDITI	2110			\bot	2/15/20)22
Area Indoor Dry Bulb Temperature 10 10 10 10 10 10 10 1		ION				D			JNS					- 1 11
Conduction						Room 2							Jar	
Area U-Value AT °F Btu/hr R-21 Wall w/1 *YPS 2,193.0 X						CO 01		door Dry Bulb To	empe	erature				24 ºF
R-21 Wall w/1* XPS	Indoor Dry Bulb Ten	nperature				68 Y								
R-21 Wall w/1* XPS	Conduction					Aroa		ILValue		Λ	т°Е		D+	/hr
Residential Cooling 307.0							0 🗸		, v			_	Dtu/	
2.149.0 X 0.0229 X 44 = 2.166							- 1					_		
							- 1					-		
	N-30 III Allic					2,143		0.0223	⊣ ^`			=		2,100
X												=		
X												=		
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Infiltration: \[\begin{array}{c ccccccccccccccccccccccccccccccccccc							X		X			=		
X							X		X			=		
X X X =							X		X			=		
X X X =							X		X			=		
Items shown with an asterisk (*) denote conduction through an interior surface to another room Page Total 11,352 Infiltration: Infiltrati							X		X			=		
Items shown with an asterisk (*) denote conduction through an interior surface to another room Page Total 11,352 Infiltration: Infiltration: Schedule Fraction Air Sensible Area Ceiling Height ACH Page Total 11,352							Х		X			=		
Items shown with an asterisk (*) denote conduction through an interior surface to another room Page Total 11,352 Infiltration: Schedule Fraction Air Sensible Area Ceiling Height ACH ACH Page Total 11,352							x		X			=		
Infiltration: [1.00 X 1.066 X 2,149 X 10.00 X 0.355 / 60] X 44 = 5,960 Schedule Fraction	Items shown with an as	sterisk (*) de	note	conduct	ion thro	ugh an interior su		o another room	_		Page To	otal		11,352
Schedule Air Sensible Area Ceiling Height ACH ΔT Fraction		. ,									_	I		
Schedule Air Sensible Area Ceiling Height ACH ΔT Fraction	Infiltration:	1.00	x	1.	066 X	2,149	x	10.00 X	0.355	/ 60]	X	44	4 =	5,960
		Schedule							СН		<u> </u>	Γ		
TOTAL HOURLY HEAT LOSS FOR ROOM 17,312		riaction												
	TOTAL HOURLY F	HEAT LO	SS	FOR R	ООМ									17,312
														,

RESIDENTIAL ROO	M COOLING I	OAD SU	JMM	ARY						
									Date	/
L BOOM INFORMATION		1 -	SECIO	N CONDI	TIONS				2/	15/2022
ROOM INFORMATION										94 °F
Room Name Floor Area				r Dry Bulk r Wet Bull						67 °F
Indoor Dry Bulb Temperature		75.05		r Wel Buil r Daily Ra	-	peratu	ii e			35 °F
mader Bry Build Temperature			Juluoo	i Daily Ita	iigo.					
Opaque Surfaces	Orientation	Area	_	U-Fac	ctor	7		CLTD ¹	- ,	Btu/hr
R-21 Wall w/1" XPS	(E)	484	1.0 X		0.0532	X		17.	<u>o</u> =	438
Wood Door	(E)	28	3.0 X		0.5000	X		17.	<u>0</u> =	238
R-21 Wall w/1" XPS	(S)	553	3.0 X		0.0532	X		10.	<u>0</u> =	294
R-21 Wall w/1" XPS	(W)	443	3.0 X		0.0532	X		17.	<u>o</u> =	401
R-21 Wall w/1" XPS	(N)	508	3.0 X		0.0532	X		7.	<u>0</u> =	189
R-38 HP Attic	(N)	539	9.0 X		0.0229	X		41.	<u>o</u> =	506
R-21 Wall w/1" XPS	(NW)		1.0 X		0.0532	- ^`		14	⊣	8
R-21 Wall w/1" XPS	(SW)	11	1.0 X		0.0532	X		15.	<u>o</u> =	9
*R-0 Roof No Attic		2,149	9.0 X		0.3041	X		0.	<u>o</u> =	0
							Pa	age Total		2,083
Items shown with an asterisk (*) den 1. Cooling Load Temperature Diffe	ote conduction through ai erence (CLTD)	n interior surface	e to anot	her room.						
	,	Sh	aded			1	Unsh	aded		
Fenestration	Orientation	Area		GLF		Area		GL		Btu/hr
Window	(E)	0.0	2 X	10.8	+	1	148.0	X	25.5	= 3,768
Window	(S)	0.0	2 X	10.8	+		77.0	х	14.6	= 1,125
Window	(W)	0.0	⊣ ^` —	10.8	+			X	25.5	= 5,525
Window	(N)	0.0	2 X	10.8	+	1	122.0	X	10.8	= 1,315
			_ X		+			X	:	=
			_ X		+			X	:	=
			_ x		+			x	:	=
			_ X		+			X	:	=
			_ x		+			X	:	=
								Page 1	otal	11,733
Internal Gain										Btu/hr
Occupants 8.	.1 Occupant	s X			250	D Btuk	n/occ.		=	2,018
Occupants	,688 Floor Area				0.50	- Diai			_	4,587
Equipment 2,	Floor Alea	a				w/sc	111		-	,,007
Infiltration: 1.066 X	0.94 X	123.19 X		19 _					ſ	2,343
Air Sensible	CFM	ELA	Δ						Į	
TOTAL HOURLY SENSIBLE	HEAT GAIN FOR I	ROOM								22,765
Latent Gain										Btu/hr
Occupants 8.	.1 Occupant	s X			155	Rtuh	/occ.		=	1,251
Осоцианто	Occupant					ا الماد	ı, OOC.		_	.,
Infiltration: 4,780 X	0.94 X	123.19 X	-0.	.00121 =						-671
Air Latent	CFM	ELA	ΔV							
TOTAL HOUDING ATTENTION	EAT OAIL FOR SO	2014								500
TOTAL HOURLY LATENT H	LAI GAIN FOR RC	OM								580

RESIDENTIAL ROO	M COOLING L	OAD S	UM	M	ARY									
Project Name											[Date		- /2 2 2 2
DOOM INCODMATION		1	DEC	101	I CONDI	TI	ONG					2	2/18	5/2022
ROOM INFORMATION		Room 2			N CONDI.									94 °F
Room Name		NOOHI Z			r Dry Bulb		-							94 1 67 °F
Floor Area		75 °F			r Wet Bulk		-	eratu	re					35 °F
Indoor Dry Bulb Temperature		, , ,	Out	1001	r Daily Ra	ng	e.							
Opaque Surfaces	Orientation	Area			U-Fac	to	r			CL.	TD ¹			Btu/hr
R-21 Wall w/1" XPS	(E)	4	57.0	X		0.	0532	Χ			17.0	=		413
R-21 Wall w/1" XPS	(S)	6	14.0	X		0.	0532	Χ			10.0	=		327
R-21 Wall w/1" XPS	(W)	4	58.0	X		0.	0532	X			17.0	=		414
R-21 Wall w/1" XPS	(N)	6	44.0	X		0.	0532	Χ			7.0	=		240
R-38 HP Attic	(S)	2,1	49.0	X		0.	0229	Χ			41.0	=		2,019
R-21 Wall w/1" XPS	(SE)		10.0	X			0532	X			15.0	=		8
R-21 Wall w/1" XPS	(NE)		10.0	X		0.	0532	Χ			13.0	=		7
				X				X				=	\vdash	
				X				X	_			=	\vdash	2 42-
Items shown with an asterisk (*) dend	ote conduction through ar	n interior surfa	ice to a	anotl	her room				Р	age	e Total			3,427
Cooling Load Temperature Difference	erence (CLTD)								I I.		1			
Fenestration	Orientation		Shade	ea	GLF				Jnsh	nad	ea GLF			Btu/hr
Window	(E)	Area	0.0 X			+	<u> </u>	Area 1	03.0	X		25.5	l <u>_</u>	2,623
Window	(S)		0.0 X			+			66.0			14.6		965
Window	(W)		0.0 X		40.0	+			02.0	X		25.5		2,597
Window	(N)		0.0 X		40.0	+			36.0	X		10.8		388
	. ,		-	_		· +				X			_	
			X	-		+				X			=	
			х			+				Χ			=	
			x			+				X			=	
			x			+				X			=	
					-						Page To	tal		6,572
Internal Gain Occupants 6.	5	, _					250	D	,				Г	Btu/hr 1,613
Occupants	Оссирані						0.50	Btuh		•		=		3,667
Equipment 2,	Floor Area	a X					0.50	w/sq	π			=	L	3,007
Infiltration: 1.066 X	0.94 X	98.49 x			19 _									1,873
Air Sensible	CFM	ELA A	`	Δ٦										1,070
TOTAL HOURLY SENSIBLE	HEAT GAIN FOR F	ROOM												17,153
Latent Gain														Btu/hr
Occupants 6.	5 Occupant	s X					155	Btuh	/occ			=		1,000
								un	, 550.	•		_	_	
Infiltration: 4,780 X	0.94 X	98.49 X			00121 =									-537
Air Latent	CFM	ELA		ΔV	v <u> </u>								_	
TOTAL HOURLY LATENT H	FAT GAIN FOR PO	OM												464
IOTAL HOUNET LATERITY	EAT CAINTON NO													404