

ENVELOPE COMPLIANCE SUMMARY

2021 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

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2021 WSEC Complianc	e Forms for Co	ommercial Buildin	gs including Group l	R2, R3 & R4 over 3 stories	and all R1								Α	Administered by: ©20	24 NEEA, All rights reserved
		Projec	ct Title		WSF-Intern	ational Village - 2021 W	SEC	Fo	or Buildir	ng Departme	ent Use:			D	ate: Oct 30, 2024
		Projec	ct Address			110 9TH AVE SW								D	atc. Oct 50, 2024
Project & Applicant					P	uyallup, WA 98371									
Information			cant Name			Song Cho									
			cant Phone cant Email			509-432-4651 gyi.cho@hotmail.com									
		Арри	cant Eman	For questions about the			eal Support at 360-5	39-5300 or s	via email	at com tech	support@waenergycodes.com				
				Tor questions about t	no report, contact was	De commercial recimie	an Support at 300 3	3, 2300 CI	via ciiiaii	ut commeen	support@maenergy codes.com				
General Occupancy		All Com	mercial	General Building Use	Type(s)	Dining, Restaura	ant/Bar	Bu	uilding C	Cond. Floor	Area				205
İ				Space Conditioning		Fully Condition			_	nd. Floor A	rea				,205
Project Scope		New Bu	ilding	Categories		Walk-in Coo Walk-in Free				ove Grade					2
E. J. D. J. A. D.	*			-						ce Method				General	Prescriptive
Envelope Project Descr	iption					De	emo existing buildir	ng and const	truct a ne	w building					
		Scope	Space	Conditioning Category	Compliance Metho	nd.		R/SRR			UA Calculation Adjustment		Fenestr	ration Alternates	Compliance Verification
Envelope Compliance			Space		•			ategory					renestr		•
Scope and		New Building		Walk-in Freezer		scriptive		NA TA	-		No Calculation Adjustments allow			NA	COMPLIES
Method		New Building New Building		Walk-in Cooler Fully Conditioned		scriptive nt performance		NA % / 0%			No Calculation Adjustments allow None selected	ea	No alto	NA ernates selected	COMPLIES COMPLIES
		New Building	<u> </u>	runy Conditioned	Compone	nt performance	0.217	70 / U70			None selected		No and	emates selected	COMPLIES
	Additional Energy Efficiency (AEC) No envelope or miscellaneous additional energy efficiency measures included in project Load Management (LDM) Management (LDM)						No envel		load management measures						
Measures Included				The envelope of				project		Measures II				included in	1 project
Air Barrier Testing					Standard but	lding thermal envelope to	est			Air Barrier	Comments				
Project Title	WSF-Int	ernational Vill	age - 2021 WSE	С										Date	Oct 30, 2024
Scope & Space Con	ditioning	NEW	BUILDING - V	WALK-IN FREEZER					C	omplianc	e Verification			COMPLI	ES
Window-to-wall Ratio			NA Skylig	ht-to-roof-ratio				NA	Ve	ertical Fene	stration Alternate				NA
Opaque Envelope Asse	mblies														
											Insulation R-Values	2.17			1
Roof/Ceiling			Location i	n Documents	Assembly ID	Assembly	Location		Cavity		Continuous (% penetration)	2nd La (MB R		U-Factor	Net Area (SF)
	Walk-ir	n freezer ceiling	K	Sheet	K Sheet	Interior p	partition				R-32 (< 0.04%)	`	,		223
		E	nvelope assembly ty	pe:		•		U-Factor So	ource:						•
		U	J-Factor Source Desc	cription:											
Walls			Location i	n Documents	Assembly ID	Assembly	Location		Cavity		Continuous (% penetration)	Insulated Furri		U-Factor	Net Area (SF)
	Walk	c-in freezer wall	K	Sheet	K Sheet	Interior p	partition				R-32 (< 0.04%)	ruii	ing		490
	.,,		nvelope assembly ty		Tt blieve	interior p	Junion	U-Factor Sc	ource:		X 32 (* 010 170)				150
			J-Factor Source Desc												
Floors and Edges			Location	n Documents	Assembly ID	Assembly	Logotion		Cavity		Continuous			U-Factor	Net Area (SF)
rioors and Edges									Cavity		(% penetration)			U-Factor	` '
	Walk-in freez	er integral floor		Sheet	K Sheet	Interior p	partition	II.E C			R-28 (< 0.04%)				223
Emerting & C	Dan Anger		J-Factor Source:					U-Factor So	ource Des	scription:					
Fenestration & Opaque	e Door Assemi	blies									Insulation D Vol.				
				Γ							Insulation R-Values			+	Rough
Opaque Doors			Location i	n Documents	Assembly ID	Assembly	Location	Doo	or Insulat	tion				U-Factor	Opening (SF)
	Walk	-in freezer door		Sheet	K Sheet	Interior p	partition		R-32	-					21
			J-Factor Source:					U-Factor So	ource Des	scription:					
		D	oes opaque freezer	door have glazing?: No											
Project Title	WSF-Int	ernational Vill	age - 2021 WSE	С										Date	Oct 30, 2024
Scope & Space Con	ditioning	NEW	BUILDING - V	WALK-IN COOLER								Complian	ıce Verifi	ication COMPLI	ES
Window-to-wall Ratio			NA Skylig	ht-to-roof-ratio				NA	Ver	rtical Fenest	tration Alternate				NA
Opaque Envelope Asse	mblies														
											Insulation R-Values				
Roof/Ceiling			Loc	cation in Documents	Assembly	ID Asser	nbly Location		Cav	ity	Continuous		Layer Roof	U-Factor	Net Area (SF)
		Walk-in cooler co		K Sheet	K Sheet		erior partition			-	(% penetration) R-25 (< 0.04%)	(MB	Roof)		290
		. raik in coolei ce	Envelope asse		K Slice	. Inte	aror purition	[]-Fact	or Source	e:	IC 2.5 (\ 0.0470)	1			270
				rce Description:				5-1 400	Source						
			1 2222	1											



Walls	Location in Documents	Assembly ID	Assembly Location	Cavity	Continuous (% penetration)	Insulated Wall Furring	U-Factor	Net Area (SF)
Walk-in cooler wall	K Sheet	K Sheet	Interior partition		R-25 (< 0.04%)			520
	Envelope assembly type:			U-Factor Source:				
	U-Factor Source Description:							
Floors and Edges	Location in Documents	Assembly ID	Assembly Location	Cavity	Continuous (% penetration)		U-Factor	Net Area (SF)
Walk-in cooler integral floor	K Sheet	K Sheet	Interior partition		R-25 (< 0.04%)			290
	U-Factor Source:			U-Factor Source Description:				
Slab-on-grade Floors	Location in Documents	Assembly ID	Assembly Location	Slab Edge	Under Slab		F-Factor	Perimeter Length (SF)
Walk-in cooler slab-on-grade floor	K Sheet	K Sheet						
	Applying slab-on-grade floor exception?: No							
Fenestration & Opaque Door Assemblies								
					Insulation R-Values			
Opaque Doors	Location in Documents	Assembly ID	Assembly Location	Door Insulation			U-Factor	Rough Opening (SF)
Walk-in cooler door	K Sheet	K Sheet	Interior partition	R-25				21
	U-Factor Source:				_	•	•	
	Does opaque cooler door have glazing?: No						•	

Project Title WSF-Internatio	nal Village	- 2021 WSEC							Date Oc	t 30, 2024
Scope & Space Conditioning	NEW B	UILDING - FULLY CONDITIONED					Complian	ce Verification CO	MPLIES	
Window-to-wall Ratio		0.21% Skylight-to-roof-ratio			0%	Vertical Fenestration Alte	ernate		No alterna	tes selected
Opaque Envelope Assemblies										
							Insulation R-Values			
Roof/Ceiling		Location in Documents	Assembly ID	Assembly Location		Cavity	Continuous (% penetration)	2nd Layer (MB Roof)	U-Factor	Net Area (SF)
Metal buildin		Main Kitchen + 2nd floor	1/A4.1	Exterior		R-60	R-16 (< 0.04%)	R-16	U-0.013	7,085
		hermal Spacer Block R-Value: R-0				or Source:				
		-Factor Source Description:				raming Depth (Inches):				
		oof Framing Spacing (OC):			Is liner	system included?: No				
Metal buildin		2nd Floor Deck	2/A4.1	Exterior		R-38	R-16 (< 0.04%)	R-16	U-0.018	2,543
	T	hermal Spacer Block R-Value: R-0				or Source:				
	U	-Factor Source Description:			Roof Fr	raming Depth (Inches):				
	R	oof Framing Spacing (OC):			Is liner	system included?: No				
Walls		Location in Documents	Assembly ID	Assembly Location		Cavity	Continuous (% penetration)	Insulated Wall Furring	U-Factor	Net Area (SF)
Steel-framed - C	ommercial	E03-Main Kitchen + 2nd floor	1/A4.1	Exterior		R-21	R-0 (< 0.04%)		U-0.102	7,252
	U	-Factor Source:			U-Facto	or Source Description:				
Framing Depth:					Other F	raming Depth:				
	F	raming Spacing (OC):				-				
Steel-framed - C	ommercial	E01-Satellite Kitchen	1/A4.2	Exterior		R-21	R-10 (< 0.04%)		U-0.050	4,347
	U	-Factor Source:			U-Facto	or Source Description:	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `		1	
		raming Depth:				raming Depth:				
		raming Spacing (OC):				8 1				
Steel-framed - C		A2.1 - BATHROOM WALL & A4.2	A4.2	Exterior		R-21	R-4 (< 0.04%)		U-0.072	2,053
		-Factor Source:			U-Facto	or Source Description:	(-,
		raming Depth:			_	raming Depth:				
		raming Spacing (OC):			ouner 1	ranning Depair				
Mass (precast concrete) - C		6" Stem wall above FF	1/A4.1	Exterior & above grade			R-10 (< 0.04%)	No	U-0.07	2,053
mass (product concrete)		loes assembly include insulated wall furring?: No	******	Emeries de des ve grade	Other F	raming Depth:	10 (10 (10 17 0)	110	0 0.07	2,000
		raming Spacing (OC):			_	or Source:				
		-Factor Source Description:			O Tuck	or Bource.				
Floors and Edges		Location in Documents	Assembly ID	Assembly Location		Cavity	Continuous (% penetration)		U-Factor	Net Area (SF)
Wood-fra	aming/joist	A2.2 & A4.3 - Hall 215	2/A4.3	Exterior		R-60	(< 0.04%)		U-0.016	208
Wood III		-Factor Source:			U-Facto	or Source Description:				
		loor Framing Type (Joist, Post & Beam):				g Depth:				
		ther Framing Depth:			,	g Spacing (OC):				
Wood-fr	aming/joist	A2.2 & 2/A4.3 - Str 211	2/A4.3	Exterior		R-38	(< 0.04%)		U-0.026	20
Wood II	0,	-Factor Source:	27110	ANTONIO I	U-Facto	or Source Description:	(. 0.0 1/0)		0 0.020	
		loor Framing Type (Joist, Post & Beam):			_	g Depth:				
		ther Framing Depth:			Framing Spacing (OC):					
Slab-on-grade Floors		Location in Documents	Assembly ID	Assembly Location	1 Taillill	Slab Edge	Under Slab		F-Factor	Perimeter Length (SF)
			1		1					



	Slab Insulation Method: 4 ft vertical (from top of slab do	wnward)		F-Factor Source:				
	F-Factor Source Description:							
Fenestration & Opaque Door Assemblies				•				
				I	nsulation R-Values			
Opaque Doors	Location in Documents	Assembly ID	Assembly Location	Door Insulation			U-Factor	Rough Opening (SF)
Swinging	A7	A7	Exterior				U-0.30	378
	What percentage of this opaque door is glazing?: 50% or	percentage of this opaque door is glazing?: 50% or less						
	U-Factor Source Description:			Is this a public entrance door?:				
Other Non-Swinging	A2	A7	Exterior				U-0.25	880
	What percentage of this opaque door is glazing?: 50% or	less		U-Factor Source:				
	U-Factor Source Description:							
Vertical Fenestration	Location in Documents				Shading (PF)	Fenestration SHGC	Fenestration U-Factor	Rough Opening (SF)
Fixed - All other types	Fixed - All other types A2 A7 Exterior			PF < 0.2	SHGC-0.38	U-0.26	35	
	U-Factor & SHGC Source:			U-Factor Source Description:				



Date

Oct 30, 2024

Project Title WSF-International Village - 2021 WSEC U x A Calculation **NEW BUILDING - FULLY CONDITIONED** COMPLIES PROPOSED TARGET Opaque Envelope Assemblies Roof/Ceiling Roof/Ceiling Assembly U-Factor Net Area (SF) Roof/Ceiling Assembly ID Assembly U-Net Area (SF) U x A UxA Factor 7,085.0 MAIN FLR DECK: BATT R-60 + RIGID R-16 Metal building (purlins) 1/A4.1 0.013 7,085.0 92.1 0.031 219.6 (1) 2,543.0 2ND FLR DECK: BATT R-38 + RIGID R-16 Metal building (purlins) 2/A4.1 0.018 2,543.0 45.8 0.031 78.8 (1) Wall Wall Walls Assembly U-Assembly ID Assembly U-Net Area (SF) U x A Net Area (SF) U x A factor factor 7,252.0 E01: Batt R-21 Steel-framed - Commercial 1/A4.1 0.102 7,252.0 739.7 0.055 (1) 4,347.0 E03: Batt R-21 + Rigid R-10 Steel-framed - Commercial 2/A4.2 0.050 4,347.0 217.4 0.055 239.1 (1) 2,053.0 E02: Batt R-21 + Rigid R-4 Steel-framed - Commercial A4.2 0.072 2,053.0 147.8 0.055 (1) 2,053.0 R-10 Rigid Outside + 6" Concrete 1/A4.1 2,053.0 143.7 0.104 213.5 Mass (precast concrete) - Commercial 0.07 (1) Floor Floors and Edges Assembly ID Assembly U-Net Area (SF) UxA Assembly U-Net Area (SF) UxA Factor Factor 208.0 FLR02: Batt R-60 + Rigid R-16 Wood-framing/joist 2/A4.3 0.016 208.0 3.3 0.029 6.0 (1) 20.0 FLR01: Batt R-38 + Rigid R-16 2/A4.3 0.5 Wood-framing/joist 0.026 20.0 0.029 0.6 (1) Slab on Grade Floors PROPOSED TARGET Perimeter Length Perimeter Length (LF) Slab-on-grade Floors Assembly ID F-Factor UxA F-Factor UxA (LF) 707.0 Unheated slab A4 0.48 707.0 339.4 0.54 381.8 (1) Fenestration Assemblies PROPOSED TARGET Door Assembly U-Door Assembly Rough Opening (SF) Assembly Rough Opaque Doors Assembly ID Assembly U-UxA UxA Opening (SF) Factor Factor 378.0 0.30 378.0 113.4 0.37 139.9 Swinging Α7 (1) 880.0 Α7 0.25 880.0 220.0 0.31 272.8 Other Non-Swinging Fenestration Assembly Rough Fenestration Assembly Rough Vertical Fenestration U x A Assembly ID U x A U-Factor Opening (SF) **U-Factor** Opening (SF) 35.0 Fixed - All other types Α7 0.26 35.0 9.1 0.26 9.1 **Proposed Area** Proposed UxA Target Area Target UxA 27,561 2,072 27,561 2,073 **Project Totals**



Date Oct 30, 2024

Project Title | WSF-International Village - 2021 WSEC SHGC x A Calculation NEW BUILDING - FULLY CONDITIONED COMPLIES Fenestration Assemblies PROPOSED TARGET Fenestration SHGC Assembly Rough Opening (SF) Fenestration SHGC Assembly Rough Opening (SF) SHGC x A Vertical Fenestration Assembly ID PF SHGC x A 35.0 (1) Fixed - All other types A7 PF < 0.2 0.38 13.3 0.38 13.3 Proposed Area Proposed SHGC x A Target Area Target SHGC x A 35 13 35 13 **Project Totals**



LIGHTING COMPLIANCE SUMMARY

2021 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

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	Project Title	WSF-International Village - 2021 WSEC	For Building Department Use:	Date: May 15, 2024				
Project & Applicant	Project Address	Project Address 110 9TH AVE SW Puyallup, WA 98371		<i>pute.</i> 1414y 15, 2021				
Information	Applicant Name	Song Cho						
	Applicant Phone	509-432-4651						
	Applicant Email	songyi.cho@hotmail.com						
	For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com techsupport@waenergycodes.com							

General Occupancy	All C	Commercial	General Building Use Type		Dining, Restaurant/Bar	Building Cond. Floor Area	9,205
		New Building or	*			Project Cond. Floor Area	9,205
General Project Types	New Building	Addition	Interior Lighting Exterior Lighting	Alteration Lighting Scope		Floors Above Grade	2
		Lighting Scope	Exterior Lighting	Lighting Scope		Compliance Method	General Prescriptive
Lighting Project Description							

Lighting Compliance Scope	Project Type	Interior / Exterior (Interior includes both interior & parking)	Luminaire Replacement Scope	Compliance Method	LPA Calculation Adjustment	Compliance Verification
and Method	New Building	Interior Lighting		Building area	Reduced lighting power density option - 10%	COMPLIES
	New Building	Exterior Lighting			Not applicable to exterior	COMPLIES
Additional Energy Efficiency (AEC) Measures Included	Reduced lighting power dens	sity - 10% lower than LPA	Load Management (LDM) Measures Included		No lighting or electrical load management measu	ares included in project

Project Title	WSF-Internationa	al Village - 202	21 WSEC			Date	May 15, 2024
Lighting Power Calc	ulation	NEW BUILD	DING - INTERIOR LIGHTING	Compliance Verification	COMPLIES		
Compliance Method			Building area LPA Calculation Adjustment			l	LPA x 0.9

	Interior Lighting Power Allowance - Building Area									
Building Areas	Gross Interior Area (SF)	LPA (Watts/SF)	Total Watts Allowed (SF x LPA x 0.9)	Total Proposed Watts By Building Area	Compliance Status by Building Area					
Dining - Bar/lounge/leisure	9,200	0.79	6,541	5,787	COMPLIES					

			Proposed Ligh	nting Power Density				
Fixture Type/Application	Fixture ID	Building Area	New or Existing-to-Remain	Quantity of Fixtures, CLDs or Luminaires (#F)	Watts per Fixture, CLD or Luminaire (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)
Individual Fixtures								
Decorative	P8	Dining - Bar/lounge/leisure	New	8	56			448
Decorative	S1	Dining - Bar/lounge/leisure	New	176	1			176
Horizontal surface-mount	LED-1	Dining - Bar/lounge/leisure	New	683	1			683
Horizontal surface-mount	T2	Dining - Bar/lounge/leisure	New	15	22			330
Horizontal surface-mount	L1	Dining - Bar/lounge/leisure	New	9	32			288
Horizontal surface-mount	P	Dining - Bar/lounge/leisure	New	3	33			99
Troffer	T5	Dining - Bar/lounge/leisure	New	51	50			2,550
Recessed downlight	RC3	Dining - Bar/lounge/leisure	New	27	7			176
Recessed downlight	RC6	Dining - Bar/lounge/leisure	New	22	8			165
Recessed downlight	SMC7	Dining - Bar/lounge/leisure	New	17	14			238



Suspended	RC12	Dining - Bar/lounge/leisure	New	12	8		90
Wall-mounted	S4	Dining - Bar/lounge/leisure	New	21	14		294
Wall-mounted	R10	Dining - Bar/lounge/leisure	New	113	1		130
Other fixture type	P1	Dining - Bar/lounge/leisure	New	11	11		121

Project Title V	VSF-International Villago	e - 2021 WSEC			Date May 15, 2024
Proposed Fixtures Deta	ails NEW B	UILDING - INTERIOR LIGHTING			
Fixture Type/Application	Fixture ID	Location in Documents	Lamp Type	Building Area	New or Existing-to-Remain
Individual Fixtures					
Decorative	P8	E2 SERIES	LED	Dining - Bar/lounge/leisure	New
	Fixture Description: DECORA	TIVE		Are these fixtures located within a da	aylight zone?: Yes, controls provided
	Daylight zone location(s): Side	lit daylight zones (primary and/or secondary)		Do these fixtures require specific app	olication lighting controls?: None required
Decorative	S1	E2 SERIES	LED	Dining - Bar/lounge/leisure	New
	Fixture Description: DECORA	TIVE	•	Are these fixtures located within a da	ylight zone?: No
	Do these fixtures require specif	ic application lighting controls?: Supplemental task lighting, occ	upancy or time switch		
Horizontal surface-mount	LED-1	E2 SERIES	LED	Dining - Bar/lounge/leisure	New
	Fixture Description: LED TAP	Е	•	Are these fixtures located within a da	ylight zone?: No
	Do these fixtures require specif	ic application lighting controls?: General display/accent lighting	, occupancy or time switch		
Horizontal surface-mount	T2	E2 SERIES	LED	Dining - Bar/lounge/leisure	New
	Fixture Description: COVE LIG	GHTS		Are these fixtures located within a da	aylight zone?: No
		ic application lighting controls?: None required			<u> </u>
Horizontal surface-mount	L1	E2 SERIES	LED	Dining - Bar/lounge/leisure	New
	Fixture Description: STRIP FIX	KTURE	l	Are these fixtures located within a da	avlight zone?: No
		ic application lighting controls?: None required			<i>J</i> 8
Horizontal surface-mount	P	E2 SERIES	LED	Dining - Bar/lounge/leisure	New
	Fixture Description: LED VAP		l	Are these fixtures located within a da	avlight zone?: No
	*	ic application lighting controls?: None required			<u> </u>
Troffer	T5	E2 SERIES	LED	Dining - Bar/lounge/leisure	New
	Fixture Description: TROFFER		l	Are these fixtures located within a da	avlight zone?: Yes, controls provided
	*	lit daylight zones (primary and/or secondary)			blication lighting controls?: None required
Recessed downlight	RC3	E2 SERIES	LED	Dining - Bar/lounge/leisure	New
	Fixture Description: 4" DOWN			Are these fixtures located within a da	
	*	ic application lighting controls?: None required			<u> </u>
Recessed downlight	RC6	E2 SERIES	Halogen	Dining - Bar/lounge/leisure	New
	Fixture Description: DOWNLI			Are these fixtures located within a da	
		lit daylight zones (primary and/or secondary)			blication lighting controls?: None required
Recessed downlight	SMC7	E2 SERIES	LED	Dining - Bar/lounge/leisure	New
<u> </u>	Fixture Description: DOWNLI		ı	Are these fixtures located within a da	avlight zone?: Yes, controls provided
		lit daylight zones (primary and/or secondary)			blication lighting controls?: None required
Suspended	RC12	E2 SERIES	LED	Dining - Bar/lounge/leisure	New
	Fixture Description: DOWNLI			Are these fixtures located within a da	
	Daylight zone location(s): Topl				blication lighting controls?: None required
Wall-mounted	S4	E2 SERIES	LED	Dining - Bar/lounge/leisure	New
mounted	Fixture Description: WALL MO		1 222	Are these fixtures located within a da	11011
		lit daylight zones (primary and/or secondary)			plication lighting controls?: None required
Wall-mounted	R10	E2 SERIES	LED	Dining - Bar/lounge/leisure	New
mounted	Fixture Description: WALL MO		1 222	Are these fixtures located within a da	
		lit daylight zones (primary and/or secondary)			plication lighting controls?: None required
Other fixture type	P1	E2 SERIES	LED	Dining - Bar/lounge/leisure	New
Saler initiale type	Fixture Description: POST	DE ODICIO	1 222	Are these fixtures located within a da	
	Daylight zone location(s): Topl	it daylight zones			plication lighting controls?: None required
	Dayingin Zone location(s). Topi	it day iigiit 201103		Do mese fixtures require specific app	meanon righting controls:. None required



Project Title	WSF-Internation	al Village - 20	021 WSF	EC						Date	May 15, 2024	
Lighting Power Calcu	lation	NEW BUIL	LDING -	EXTERIOR	LIGHTING	3			Complia	iance Verification COMPLIES		
Exterior Lighting Zone					ZONE	3	Base Site Allowa	ınce			400	
	Remaining Base Site Allowance Watts											
					Exterior A	aditional Lighting Power Alle	ional Lighting Power Allowance					
Additional LPA Surface	e Surface Sub	n-Ivne	urface rea (SF)	LPA (Watts/SF)	# of Items	LPA (Watts per # of items)	Total Watts (LPA x S (LPA x # of	F) or	Total Proposed Watts by Surface Type	Proposed Watts Exceeding LPA	Compliance Status	
Building façade		5	5,390	0.113			609		84			
	•				•		Т	otal Proposed	d Watts Exceeding LPA	0		
					•		•	Remainii	ng Base Site Allowance	400	COMPLIES	

		Proposed Exterior Additional Lighting Power Density								
Fixture Type	Fixture ID	Additional LPA Surface Type	Quantity of Watts or Wattage Limit Fixtures (#F) per Fixture (WpF)		Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)			
Individual Fixture										
Wall-mounted	S4	Building façade -	6	14			84			

Fixture Type	Fixture ID	Location in Documents	Lamp Type	Additional LPA Surface Type	New or Existing-to-Remain
Individual Fixture					
Wall-mounted	S4	E2 SERIES	LED	Building façade -	New
	Do these fixtures require specific ex	terior lighting controls?: Daylight sensing off controls			



MECHANICAL COMPLIANCE SUMMARY

2021 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

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	Project Title	International Village - 2021 WSEC	For Building Department Use:	Date:	May 06, 2024
Project & Applicant	Project Address	110 9th ave SW Puyallup, WA 98371		Date.	1/1ay 00, 2024
Information	Applicant Name	Reginald Christor			
	Applicant Phone	253-691-8434			
	Applicant Email	rchristor@middlebrookeng.com			
	For questions about this report, co	ontact WSEC Commercial Technical Support at 360-539-	5300 or via email at com.techsupport@waenergycodes.com		

General Occupancy	All C	ommercial	General Building Use Type	Dining, Restaura	int/Bar	Building Cond. Floor Area	6,344					
		New Building				Project Cond. Floor Area	6,344					
General Project Types	New Building	or Addition Mechanical Scope	Single Zone Systems & Equipment	Alteration Mechanical Scope		Floors Above Grade	2					
				Wiechanical Scope		Compliance Method	General Prescriptive					
Mechanical Project	Install gas make up air units and type I and type II hoods. Install radiant heat for freeze protection in satellite kitchens. Install gas radiant heaters for occupant comfort outside of thermal envelope. Install AWHP											
Description	-	coupled with gas fired water heater for service hot water.										

Mechanical Compliance	Project Type	Mechanical Scope	Economizer Exception(s) Applied?	DOAS Ventilation Provided?	Higher Equipment Efficiency Option Applied?	Equipment Efficiency Compliance Verification	
Scope and Method	New Building	Single Zone Systems & Equipment	Yes	Yes	NA	COMPLIES	
Additional Energy Efficiency (AEC) Measures Included	No mechanical additional energy efficiency measures included in project		Load Management (LDM) Measures Included No mechanical load management measures			s included in project	
Additional Efficiency Credits Included (AEC)							
Does building include occupancy classifications requiring DOAS?	Yes		Does project include DOAS equipment?	Yes			
Based on project scope do TSPR requirements apply?	No		Do all systems comply with Appendix D standard	No			

cope & Space Conditioning NEW BUILDING - SINGLE ZONE SYSTEMS & EQUIPMENT	Compliance Verification	COMPLIES
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Single Zone Air Systems Category - Heat pump, split & single package, SC, SDHV

Air Systems Summary	Information							
System/Equip ID	System/Equip ID Quantity Supply Airflow Control		Ventilation Standard	Ventilation CFM (Total if Multiple Items)	Ventilation Air Source	Paired with DOAS	Ventilation energy recovery	Energy Recovery Efficiency (%)
IU/OU-01		Staged volume	IMC Ventilation	100	Other System		Not provided, not required	
IU/OU-02		Constant volume	IMC Ventilation	50	Separate DOAS	DOAS-01	Provided but not required	69
IU/OU-04		Constant volume	IMC Ventilation	100	Other System		Not provided, not required	

Air Systems	& Equipment - Cooling							
System/ Equip ID	Cooling System/Equip Type	Specific Type	ce Cooling Capacity per item (Btu/h) Econo Full L Multiplier (Full/IPLV		Required Cooling Efficiency (Code Min & Econo)	Proposed Cooling Efficiency	CE Units	Efficiency Compliance Verification
IU/OU-0	Heat pump, air cooled	Split system	36,000	0	13.4	23.0	SEER2	COMPLIES
IU/OU-0	IU/OU-02 Heat pump, air cooled		13,600	0	13.4	23.1	SEER2	COMPLIES
IU/OU-0	Heat pump, air cooled	Split system	33	0	13.4	18.4	SEER2	COMPLIES



Air Systen	s & Equipment - Heating								
System /Equip ID	Heating System/Equip Type	Specific Type	Heat Pump Heating Capacity (Btu/h)	Cooling Capacity (Btu/h)	AEC Efficiency Multiplier	Proposed Heat Pump Heating Efficiency	HPH Units	LTH Units	Efficiency Compliance Verification
IU/OU-01	Heat pump, air cooled, heating	Split system	42,000	36,000	1	12.5	HSPF2	COP	COMPLIES
IU/OU-02	Heat pump, air cooled, heating	Split system	18,100	13,600	1	10.7	HSPF2	COP	COMPLIES
IU/OU-04	Heat pump, air cooled, heating	Split system	35,200	33,200	1	8.5	HSPF2	COP	COMPLIES

ystem/Equip ID	Discrete Area(s) Served	Location In Project Documents - Plan/Detail #	System/Equip Compliance Path
IU/OU-01	KITCHEN	ALL	General Prescriptive
	System/Equip ID for a single or multiple items	?: Single item	
	Heating Section/Auxiliary Heating Type: Other	source	Economizer Compliance Method: Economizer not required
	WSEC Equip Efficiency Reference Table - Coo	oling: Table C403.3.2(2) Unitary Heat Pumps	
	Proposed Low OSA Temp Efficiency:		LTH Units: COP
	WSEC Equip Efficiency Reference Table - Hea	ting: Table C403.3.2(2) - Unitary Heat Pumps	
IU/OU-02	OFFICE	ALL	General Prescriptive
	System/Equip ID for a single or multiple items	?: Single item	
	Heating Section/Auxiliary Heating Type: Other	source	Economizer Compliance Method: Economizer not required
	WSEC Equip Efficiency Reference Table - Coo	oling: Table C403.3.2(2) Unitary Heat Pumps	
	Proposed Low OSA Temp Efficiency:		LTH Units: COP
	WSEC Equip Efficiency Reference Table - Hea	ting: Table C403.3.2(2) - Unitary Heat Pumps	
IU/OU-04	KITCHEN	ALL	General Prescriptive
	System/Equip ID for a single or multiple items	?: Single item	
	Heating Section/Auxiliary Heating Type: Other	source	Economizer Compliance Method: Economizer not required
	WSEC Equip Efficiency Reference Table - Coo	oling: Table C403.3.2(2) Unitary Heat Pumps	
	Proposed Low OSA Temp Efficiency:		LTH Units: COP
	WSEC Equip Efficiency Reference Table - Hea	ting: Table C403.3.2(2) - Unitary Heat Pumps	

Single Zone Air Systems Category - Infrared heating equipment

Air Systems Summary Information										
	System/Equip ID	Quantity of Items	Supply Airflow Control	Ventilation Standard	Ventilation CFM (Total if Multiple Items)	Ventilation Air Source	Paired with DOAS	Ventilation energy recovery	Energy Recovery Efficiency (%)	
	ALL RH EQUIPMENT			IMC Natural Ventilation						

	Radiant & Passive Convection - Baseboard, In-floor, Infrared and Chilled Beams						
ſ	Equipment Type	System ID (from Systems Summary)	Discrete Areas Served	Required Ventilation CFM	Ventilation Air Source	Total System Capacity	
Γ	Electric, low temp	Infrared heaters					

Air Systems & Equipment Details							
System/Equip ID	Discrete Area(s) Served	Location In Project Documents - Plan/Detail #	System/Equip Compliance Path				
ALL RH EQUIPMENT	SEMI HEATED	MH101	General Prescriptive				
	System/Equip ID for a single or multiple items?: Single item						