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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Date:

May 15, 2024

Project & Applicant	Project Title	WSF-International Village - 2021 WSEC
	Project Address	110 9TH AVE SW Puyallup, WA 98371
Information	Applicant Name	Song Cho
	Applicant Phone	509-432-4651
	Applicant Email	songyi.cho@hotmail.com

PRCNC20241090

For Building Department Use:

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 Commercial	General Building Use Type(s)	Dining, Restaurant/Bar	Building Cond. Floor Area	9,205				
			Fully Conditioned	Project Cond. Floor Area	9,205				
Project Scope	New Building	Space Conditioning Categories	777 II · F	Floors Above Grade	2				
		Categories		Compliance Method	General Prescriptive				
Envelope Project Description	Demo existing building and construct a new building								

Envelope	Scope	Space Conditioning Category	Compliance Method	WWR/SRR per Category	UA Calculation Adjustment	Fenestration Alternates	Compliance Verification
Compliance	New Building	Walk-in Freezer	Prescriptive	NA	No Calculation Adjustments allowed	NA	COMPLIES
Scope and Method	New Building	Walk-in Cooler	Prescriptive	NA	No Calculation Adjustments allowed	NA	COMPLIES
	New Building	Fully Conditioned	Component performance	0.42% / 0%	None selected	No alternates selected	COMPLIES

Additional Energy Efficiency (AEC)	No envelope or miscellaneous additional energy efficiency measures included in	Load Management (LDM)	No envelope or miscellaneous load management
Measures Included	project	Measures Included	measures included in project
Air Barrier Testing	Standard building thermal envelope test	Air Barrier Comments	

	Project Title	WSF-Internation	al Village -	Tillage - 2021 WSEC Date						
Sco	Scope & Space Conditioning NEW BUILDING - WALK-IN FREEZER Compliance Verification						COMPLIES			
Win	Window-to-wall Ratio NA Skylight-to-roof-ratio NA Vertical Fenestration		Vertical Fenestration Alternate		NA					

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)
Walk-in freezer ceiling	K Sheet	K Sheet	Interior partition		R-32 (< 0.04%)			223
	Envelope assembly type:			U-Factor Source:				
	U-Factor Source Description:							
Walls	Location in Documents	Assembly ID	Assembly Location	Cavity	Continuous (% penetration)	Insulated Wall Furring	U-Factor	Net Area (SF)
Walk-in freezer wall	K Sheet	K Sheet	Interior partition		R-32 (< 0.04%)			490
	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 freezer integral floor	K Sheet	K Sheet	Interior partition		R-28 (< 0.04%)			223
	U-Factor Source:			U-Factor Source Descrip	tion:			
Fenestration & Opaque Door Assemblie	s							
				Insulation R-Values				
Opaque Doors	Location in Documents	Assembly ID	Assembly Location	Door Insulation			U-Factor	Rough Opening (SF)

	1						_	, I	
Walk-in freezer do		K Sheet	Interior partition	R-32			Di	City of Puyallup opment & Permitting Services ISSUED PERMIT	21
	U-Factor Source:			U-Factor Source	Description	on:		Building Planning Engineering Public Works	
	Does opaque freezer door have glas	zing?: No						Fire	
Project Title WSF-Inter	national Village - 2021 WSEC]	Date May 1	5, 2024
Scope & Space Conditioning	NEW BUILDING - W	ALK-IN COOLER	₹			C	Compliance Verific	cation COMP	LIES
Window-to-wall Ratio	NA Skylight-to-1	oof-ratio		NA	Vertical	Fenestration Alternate			NA
Opaque Envelope Assemblies						You have D William			
						Insulation R-Values Continuous	2-41		
Roof/Ceiling	Location in Document	Assembly ID	Assembly Location	Cavi	ity	(% penetration)	2nd Layer (MB Roof)	U-Factor	Net Area (SF)
Walk-in coole	ceiling K Sheet	K Sheet	Interior partition			R-25 (< 0.04%)	(11)		290
	Envelope assembly type:	· ·		U-Factor Sou	rce:	. /		•	
	U-Factor Source Description	:							
Walls	Location in Document		Assembly Location	n Cavi	ity	Continuous (% penetration)	Insulated Wall Furring	U-Factor	Net Area (SF)
Walk-in coo	ler wall K Sheet	K Sheet	Interior partition			R-25 (< 0.04%)	Ĭ		520
	Envelope assembly type:	!	· ·	U-Factor Sou	rce:		•		
	U-Factor Source Description	:							
Floors and Edges	Location in Document	s Assembly ID	Assembly Location	ı Cav	ity	Continuous (% penetration)		U-Factor	Net Area (SF)
Walk-in cooler integ	al floor K Sheet	K Sheet	Interior partition			R-25 (< 0.04%)			290
	U-Factor Source:	'	•	U-Factor Sou	rce Descri	iption:	•	•	
Slab-on-grade Floors	Location in Document	Assembly ID	Assembly Location	n Slab F	dge	Under Slab		F-Factor	Perimeter Length (SF)
Walk-in cooler slab-on-gra	de floor K Sheet	K Sheet							
	Applying slab-on-grade floor	r exception?: No	•			•	•	•	
Fenestration & Opaque Door Assembli	es								
<u> </u>						Insulation R-Values			
Opaque Doors	Location in Document	s Assembly ID	Assembly Location	n Door Ins	ulation			U-Factor	Rough Opening (SF)
Walk-in coo	ler door K Sheet	K Sheet	Interior partition	R-2	5				21
	U-Factor Source:	<u>.</u>		U-Factor Sou	rce Descri	iption:			
	Does opaque cooler door have	e glazing?: No							
							<u> </u>	_	
Project Title WSF-Inter	national Village - 2021 WSEC						1	Date May 1	5, 2024
Scope & Space Conditioning	NEW BUILDING - F	ULLY CONDITIO	NED			Compl	iance Verification	COMPLIES	
Window-to-wall Ratio	0.42% Skylig	ht-to-roof-ratio		0%	Vertical 1	Fenestration Alternate		No alter	nates selected
Opaque Envelope Assemblies									
		 			Iı	nsulation R-Values			1
Roof/Ceiling	Location in Documents	Assembly ID	Assembly Location	Cavity		Continuous (% penetration)	2nd Layer (MB Roof)	U-Factor	Net Area (SF)
Metal building (purlins		A4.1	Exterior	R-38		(< 0.04%)	R-10	U-0.021	1,206
	Thermal Spacer Block R-Value: R-0)		U-Factor Source:					
	U-Factor Source Description:			Roof Framing Dep		/			
	Roof Framing Spacing (OC):	1		Is liner system inc	uded?: No				1
Insulation above & below decl		A4	Exterior			(< 0.04%)		U-0.018	8,507
	U-Factor Source:			U-Factor Source D					
	Roof Framing Type: Standard			Roof Framing Dep	th (Inches):			

								City of Puyallup Development & Permitting Service ISSUED PERMIT
	Roof Framing Spacing (OC):			Roof Framing Material: Ste	eel-framed			Building Planning Engineering Public Works
	Ceiling/Attic Venting: Unvented							Fire Traffic
Walls	Location in Documents	Assembly ID	Assembly Location	Cavity	Continuous (% penetration)	Insulated Wall Furring	U-Factor	Net Area (SF)
Steel-framed - Commercial	A4	A4	Exterior	R-21	R-10 (< 0.04%)		U-0.051	7,070
	U-Factor Source:	•	•	U-Factor Source Descriptio	on:	•	•	•
	Framing Depth:			Other Framing Depth:				
	Framing Spacing (OC):							
Slab-on-grade Floors	Location in Documents	Assembly ID	Assembly Location	Slab Edge	Under Slab		F-Factor	Perimeter Length (SF)
Unheated slab	A4	A4	At grade level	R-10			F-0.51	707
	Slab Insulation Method: 3 ft vertical	(from top of slab dov	wnward)	F-Factor Source:				
	F-Factor Source Description:							
Fenestration & Opaque Door Assemblie	es							
					Insulation R-Values			
Opaque Doors	Location in Documents	Assembly ID	Assembly Location	Door Insulation			U-Factor	Rough Opening (SF)
Swinging	A7	A7	Exterior				U-0.37	378
	What percentage of this opaque doo	r is glazing?: 50% or	less	U-Factor Source:				
	U-Factor Source Description:			Is this a public entrance doo	or?:			
Garage - Glazed <14%	A2	A7	Exterior				U-0.4	880
	What percentage of this opaque doo	r is glazing?: 50% or	less	U-Factor Source:	•	•	•	
	U-Factor Source Description:							
Vertical Fenestration	Location in Documents	Assembly ID	Assembly Location		Shading (PF)	Fenestration SHGC	Fenestration U-Factor	Rough Opening (SF)
Fixed - All other types	A2	A7	Exterior		PF < 0.2	SHGC-0.38	U-0.26	35
	U-Factor & SHGC Source:			U-Factor Source Descriptio	on:			

Project Title WSF-Internation	nal Village - 2021 WSEC						SSUED PERMIT Building Plannir Engineering Public William Fire Traffic	g orks	Date May 15,	2024	
U x A Calcu	lation		NEW BUILDIN	G - FULLY (CONDITIO	ONED		COMPLIES			
	Opaque Envelope Assemblies				PROP	OSED			TARGET		
Roof/Ceil	Roof/Ceiling			Roof/Ceiling Assembly U- Factor	Net Area	(SF)	U x A	Roof/Ceiling Assembly U- Factor	Net Area (SF)	U x A	
		A4.1	0.021	1,206.	0	25.3	0.031	1,206.0 (1)	37.4		
	Insulation above & below deck		A4	0.018	8,507.	0	153.1	0.021	8,507.0 (1)	178.6	
Walls			Assembly ID	Wall Assembly U- factor	Net Area	(SF)	UxA	Wall Assembly U- factor	Net Area (SF)	UxA	
	Steel-framed - Commercial		A4	0.051	7,070.	0	360.6	0.055	7,070.0 (1)	388.9	
	Slab on Grade Floors			PROPOSED					TARGET		
					Perimeter I	angth			Perimeter Length		
Slab-on-grade	Floors		Assembly ID	F-Factor	(LF)		U x A	F-Factor	(LF)	UxA	
	Unheated slab		A4	0.51	707.0)	360.6	0.54	707.0 (1)	381.8	
	Fenestration Assemblies		PROPOSED								
Opaque De	oors		Assembly ID	Door Assembly U- Factor	Assembly I Opening		U x A	Door Assembly U- Factor	Assembly Rough Opening (SF)	U x A	
	Swinging		A7	0.37	378.0)	139.9	0.37	378.0 (1)	139.9	
	Garage - Glazed <14%		A7	0.4	880.0)	352.0	0.31	880.0 (1)	272.8	
Vertical Fenes	Vertical Fenestration			Fenestration U-Factor	Assembly I Opening		UxA	Fenestration U-Factor	Assembly Rough Opening (SF)	UxA	
	Fixed - All other types		A7	0.26	35.0		9.1	0.26	35.0 (1)	9.1	
	Proposed Area 18,783		Proposed UxA			Target Area			Target Ux		
Project Totals		1,4	01			18,783 1,408					

Project Title WSF-Interna	ational Village - 2	021 WSEC	of Puyallup & Puyallup & Permitting Services UED PERMIT Planning Public Wiceles	Date M	Iay 15, 2024					
SHGC x A Calculati	on		NEW BUILDING	- FULLY CONDITIONED			Traffic	COMPLIES		
Fenestration Assemblies					PROPOSED TARGET			Γ		
Vertical Fenestration		Assembly ID	PF	Fenestration SHGC	Assembly Rough Opening (SF)	SHGC x A	Fenestration SHGC	Assembly Rough Opening (SF)	SHGC x A	
F	ixed - All other types	A7	PF < 0.2	0.38	35.0	13.3	0.38	35.0 (1)	13.3	
				•						
	Propo	osed Area	Propos	ed SHGC x A Target Area			Target S	HGC x A		
Project Totals		35		13 35			13			

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 & Applicant	Project Title	WSF-International Village - 2021 WSEC	For Building Department Use:	Date: May 15, 2024
	Project Address	110 9TH AVE SW Puyallup, WA 98371		171ay 13, 2024
Information	Applicant Name	Song Cho		City of Puyallup Development & Permiting Services ISSUED PERMIT
	Applicant Phone	509-432-4651		Building Planning Engineering Public Works
	Applicant Email	songyi.cho@hotmail.com		Fire Traffic

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	neral Project Types New Ruilding Addition Interior Lighting	Interior Lighting Exterior Lighting	Alteration Lighting Scope		Floors Above Grade	2	
		Lighting Scope	Exterior Eighting	Lighting Scope		Compliance Method	General Prescriptive
Lighting Project							
Description							

Lighting Compliance Scope	ighting Comphanec		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 density - 10% lower than LPA		Load Management (LDM) Measures Included		No lighting or electrical load management measurement	ures included in project

	Project Title	WSF-Internation	al Village - 202	Date	May 15, 2024			
-	Lighting Power Calculation NEW BUIL			DING - INTERIOR LIGHTING	Compliance Verification		COMPLIES	
	Compliance Method			Building area	LPA Calculation Adjustment		1	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	City of Puyallup Development & Permitting Services /ISSUED PERMIT	294
Wall-mounted	R10	Dining - Bar/lounge/leisure	New	113	1	Building Planning Engineering Public Works	130
Other fixture type	P1	Dining - Bar/lounge/leisure	New	11	11	Fire Traffic	121

Project Title V	WSF-International Villag	e - 2021 WSEC			Dat	e May 15, 2024
Proposed Fixtures Det	ails NEW E	BUILDING - 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/leisur	ire	New
	Fixture Description: DECORA	TIVE		Are these fixtures located within	n a daylight zone	?: Yes, controls provided
	Daylight zone location(s): Side	elit daylight zones (primary and/or secondary)		Do these fixtures require specifi		
Decorative	S1	E2 SERIES	LED	Dining - Bar/lounge/leisus		New
	Fixture Description: DECORA	TIVE		Are these fixtures located within	n a daylight zone	?: No
	Do these fixtures require speci	fic application lighting controls?: Supplemental task lighting, occu	apancy or time switch			
Horizontal surface-mount	LED-1	E2 SERIES	LED	Dining - Bar/lounge/leisus	ire	New
	Fixture Description: LED TAP	PE		Are these fixtures located within a daylight zone?: No		
		fic application lighting controls?: General display/accent lighting,	occupancy or time switch		, ,	
Horizontal surface-mount	T2	E2 SERIES	LED	Dining - Bar/lounge/leisur	ire	New
TIOTECHAN DATAGE MOUNT	Fixture Description: COVE LI	l	222	Are these fixtures located within		
		fic application lighting controls?: None required		The mest initiales is acted within	ir a day iigiit zeii	
Horizontal surface-mount	L1	E2 SERIES	LED	Dining - Bar/lounge/leisur	ire	New
Honzonan sarrace mount	Fixture Description: STRIP FI		LLD	Are these fixtures located within		
		fic application lighting controls?: None required		The these fixtures located within	ii a dayiigiit zoik	
Horizontal surface-mount	p	E2 SERIES	LED	Dining - Bar/lounge/leisur	ire	New
Horizontal surface-mount	Fixture Description: LED VAP		LLD	Are these fixtures located within		
		fic application lighting controls?: None required		Are these fixtures located within	ii a dayiigiit zoile	2. NO
Troffer	T5	E2 SERIES	LED	Dining Day/January/Jaine		New
Trotter		l	LED	Dining - Bar/lounge/leisur		
	Fixture Description: TROFFEI			Are these fixtures located within		_
D 11 11 1		elit daylight zones (primary and/or secondary)	LED	Do these fixtures require specifi	**	· ·
Recessed downlight	RC3	E2 SERIES	LED	Dining - Bar/lounge/leisur		New
	Fixture Description: 4" DOWN			Are these fixtures located within	n a daylight zone	?: No
		fic application lighting controls?: None required	** .		1	
Recessed downlight	RC6	E2 SERIES	Halogen	Dining - Bar/lounge/leisur		New
	Fixture Description: DOWNLI			Are these fixtures located within		
	* *	elit daylight zones (primary and/or secondary)		Do these fixtures require specifi	- 11	<u> </u>
Recessed downlight	SMC7	E2 SERIES	LED	Dining - Bar/lounge/leisur		New
	Fixture Description: DOWNLI			Are these fixtures located within		
	* *	elit daylight zones (primary and/or secondary)		Do these fixtures require specifi	**	*
Suspended	RC12	E2 SERIES	LED	Dining - Bar/lounge/leisur		New
	Fixture Description: DOWNLI			Are these fixtures located within		•
	Daylight zone location(s): Top	• •		Do these fixtures require specifi	ic application lig	hting controls?: None required
Wall-mounted	S4	E2 SERIES	LED	Dining - Bar/lounge/leisur	ıre	New
	Fixture Description: WALL M	OUNTED		Are these fixtures located within	n a daylight zone	?: Yes, controls provided
	Daylight zone location(s): Side	elit daylight zones (primary and/or secondary)		Do these fixtures require specifi	ic application lig	hting controls?: None required
Wall-mounted	R10	E2 SERIES	LED	Dining - Bar/lounge/leisu		New
	Fixture Description: WALL M	OUNTED		Are these fixtures located within	n a daylight zone	?: Yes, controls provided
	Daylight zone location(s): Side	elit daylight zones (primary and/or secondary)		Do these fixtures require specifi	ic application lig	hting controls?: None required
Other fixture type	P1	E2 SERIES	LED	Dining - Bar/lounge/leisur	ire	New
	Fixture Description: POST			Are these fixtures located within	n a daylight zone	?: Yes, controls provided
	Daylight zone location(s): Top	lit daylight zones		Do these fixtures require specifi	ic application lig	hting controls?: None required

								City of Puyallup Development & Permitting Services ISSUED PERMIT		
Project Title W										1ay 15, 2024
Lighting Power Calculat	ghting Power Calculation NEW BUILDING - EXTERIOR LIGHTING Complian							nce Verification C	COMPLIES	
Exterior Lighting Zone ZONE 3 Base Site Allowance										400
	Remaining Base Site Allowance Watts								400	
				Exterior A	Additional Lighting Power Al	lowance				
Additional LPA Surface	Surface Sub-	Type Surface Area (SF)	LPA (Watts/SF)	# of Items	LPA (Watts per # of items)	Total Watts (LPA x S (LPA x # ot	SF) or	Total Proposed Watts by Surface Type	Proposed Watts Exceeding LPA	Compliance Status
Building façade		5,390	0.113			609)	84		
	Total Proposed Watts Exceeding LPA									
	Remaining Base Site Allows									

	Proposed Exterior Additional Lighting Power Density										
Fixture Type Fixture ID		Additional LPA Surface Type	Quantity of Fixtures (#F)	Watts or Wattage Limit 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 & Applicant Information	Project Title	International Village - 2021 WSEC	For Building Department Use:	Date:	May 06, 2024
	Project Address	110 9th ave SW Puyallup, WA 98371		Date.	City of Puyallup Development & Permitting Services (ISSUED PERMIT)
	Applicant Name	Reginald Christor			Building
	Applicant Phone	253-691-8434			Engineering Public Works Fire Traffic
	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 Commercial		General Building Use Type	Dining, Restaurant/Bar		Building Cond. Floor Area	6,344				
		New Building				Project Cond. Floor Area	6,344				
General Project Types	New Building or Addition Mechanical S	0	Single Zone Systems & Equipment	Alteration Mechanical Scope		Floors Above Grade	2				
		Mechanical Scope		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 included in	
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	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 (%)
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	Cooling Capacity per item (Btu/h)	Econo Full Load Multiplier (Full/IPLV)	Required Cooling Efficiency (Code Min & Econo)	Proposed Cooling Efficiency	CE Units	Efficiency Compliance Verification
IU/OU-01	Heat pump, air cooled	Split system	36,000	0	13.4	23.0	SEER2	COMPLIES
IU/OU-02	Heat pump, air cooled	Split system	13,600	0	13.4	23.1	SEER2	COMPLIES
IU/OU-04	Heat pump, air cooled	Split system	33	0	13.4	18.4	SEER2	COMPLIES

Air System	Air Systems & 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	Proposed Low OSA Temp Efficiency	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

stem/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	ing: Table C403.3.2(2) Unitary Heat Pumps	
	Proposed Low OSA Temp Efficiency:		LTH Units: COP
	WSEC Equip Efficiency Reference Table - Heat	ing: 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	ing: Table C403.3.2(2) Unitary Heat Pumps	
	Proposed Low OSA Temp Efficiency:		LTH Units: COP
	WSEC Equip Efficiency Reference Table - Heat	ing: 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	ing: Table C403.3.2(2) Unitary Heat Pumps	
	Proposed Low OSA Temp Efficiency:		LTH Units: COP
	WSEC Equip Efficiency Reference Table - Heat	ing: 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						

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