LIGHTING	G COMPL	IANCE	SUMMA	RY													
018 WSEC Comp	diance Forms for 6	Commenzial B	uildings includ	ing Group R2, R3	& R4 over 3 stories	and all R1						Admi	nistered by: ©2	023 NEBA, Ali	rights reserved		
		1	Project Title		ARCO Puyi	14up - 2018 V	VSEC	For Buildin	g Depa	ntrhant Usa:		Date: Nov 03, 2023					
roject & Applica	nt	1	Project Addre	ss	Ma Puyaih	run way E ap, WA 98314	5										
nformation		8	Applicant Nar	ing and a second se	51	wan Cruz											
		4	Applicant Em	ม ม	Steven_Cr	nz@abossein	aom										
		For g	postions about	this report, contac	t WSBC Commercia	l Technical S	uppert at 360-53	9-5300 or vie	e email	l at com.techsuppo	ri@waa	nergyvodas.com					
entral Occupanc	(y		All C	ommerçial	General Building	Use Type		Retail, Co	onyanla	ence/Feel Dispensi	ing Be	ulding Cond, Fl	00r Área	3,48	9		
enaral Project Ty	ypes	1	Now Building	New Building or Addition Lighting Scope	Interior Lig Exterior Lig	phing ghting	Alteration Lighting Scope				Pr Fk Co	oject Cand. Fie oors Above Gra empliance Meth	or Area do od Ca	3,48 1 ompliance Meth	od 1 - General		
ighting Project D	oscription							•									
		i	Project These	Interi	or / Exterior	I mini	nales Bantasam	bat Konen	Com	allance Method		LPA Calcul	ation	Chartines	a Vacification		
Lighting	Compliance Sco ad Method	pe -	New Building	(Interfor Inclusion	i ooth interior & parki ior Lighting	(g) Landi	and a residence of the	ene secolor	- and B	fullding gran	No C	Adjustm aksulation Adjust	int monts solected	COM	PLIES		
			New Building	Exte	ior Lighting						- 1 M 100	Not applicable 1	o exterior	COM	PLIES		
Project T	itle ARCO	Puyallup - 2	2018 WSEC	2									Date	Nov 03, 202	3		
ighting Power	Calculation	2	NEW BUIL	DING - INTER	RIOR LIGHTIN	G						Compliance	Verification	COMPLIE	s		
ompliance Metho	od			Building area		LP	A Calculation A	djustment					L	PA x 0.8			
					Interior I	ighting Para	ar Allowarca B	uilding to:									
Pulliban à -	2005	Pares 7-	deeles Less /P	m l	Interior L	agitung Pow	Total Watt	s Allowed	a	Total I	Propose	d Watts	0	ompliance Stat	is by		
panal panal	werb	G4055 18	3 480	•	LFA (watts/SF)	,	(SF x LP	A x 0.8)		By B	2 180	Area		Building Are	h -		
Ikwwii			20182		0.04		2,3				2,109			AANIL PHIS			
					p	roposed Lig	hting Power Der	isity		W2-44	_			1	otal Watts		
Fixture Type/Application Fixture			Building	Area Exist	New or ing-to-Remain	Quanti	Quantity of Fixtures, CLDs - Luminaires (%F)		1 L	Watts per Fixture, CLD or Luminaire (WpF)	1	fotal Linear Feet (L-P)	Watts per L Feat (Wp	Anvar LF) (#) (L	Proposed F x WpF) or F x WpLF)		
idividual Fixture	S napad dogailaist	A/AE	Pain	a	Maay		08		_	30					750		
Rec	cessed downlight	E	Reta	1	New		32			14					448		
	Suspended	B/BE	Reta	a	New		31			23					707		
0	other fixiare type Other fixiare type	83 D	Reta	ม ม	Now Now		7		+	32	-				63		
Project T	itle ARCO	Puvallun - 1	2018 WSEC	,									Date	Nov 03, 202	3		
roposed Fixtu	res Details	r uyunup - 2	NEW BUIL	DING - INTER	RIOR LIGHTIN	G							Date				
Fixture Type//	Application	Fixturi	e ID	Locatio	m in Documents		Lamp Typ	e		Building Area		- T	l Xulaha	New or			
ndividual Fixture	s		-					-					EXISTO	3-es- Rentati			
Ray	eessed downlight	A/Al	E .	a b series we are	E1.0		LED			Rotall	Jun 1	A	-	New			
bs://www.waen hting, N WSEC Require ington State En	ergyoodes.com Aotor an ments for Com ation is necessa aergy Code, Co	print_project	etrical ctrical dings includir a permit app ovisions.	form.php?k=Y21 Require ng Group R2, R3 lication for comp	etYm9fd@Z2X3B ments Li <u>& R4 over 3 stor</u> liance with the lig	OPWx0Z18: St, pg Nes & all R1 phting syste	2Y29wZV9uZX 1 of 10 - Administer ms, motors an	nad by ©20 d electrica	(Jpb3))23 NE	IINONwZF9uZXc EEA, All rights n em requirements	dfYnVp oserve s in the	d 201 Wa	GZ2PWx0Z11 ghting 8 WSEC Rec following info shington Stat	, Motor , Motor guiremente for ormation is ne e Energy Cod	Commercial Buccessary to chece, Commercial Figure 2015		
uestions about t roject: RCO Puyallup tartin Way E tuyallup, WA S	this report, cont 5 - 2018 WSE 98516	act WSEC C	Commercial 1	Fechnical Suppo	rt at 360-539-530	10 or via em	ail at com.tech	isupport@	waene	pate: 202	:3-11-(For Na	questions ab	C405.2.1	.2 Occupan controls - spaces		
lies	Code Section	Componen	ί.	Compliance In	formation Requi	red In Perm	it Location	ı in]	Building Depar	tment	N	A.				
HTING SCOP	Æ			Docamentation	1		Locume	1105		PIORS							
	C103.1	Construction documents	on - General	For a shell & c out) project, in	ore or tenant spa dicate if there is	ce (first bui no lighting	ild-					н	4	0404.2.1	3 0000000		
				scope menuded	in the project.							LN4	•	5402.4.I	controls		

2018 WSEC R The following i Washington St For questions	Requirements for Corr information is necess tate Energy Code, Co about this report, con	nmercial Buildings Includ ary to check a permit ap ommercial Provisions. atact WSEC Commercial	ng Group R2, R3 & R4 over 3 stories & all R1 plication for compliance with the lighting systems, Technical Support at 360-539-5300 or via email a	Administered by @2 motors and electrica at com.techsupport@	023 NEEA, All rights reserved al system requirements in the awaenergycodes.com	2018 WSEC The following Washington For question	Requirements for Cor g information is necess State Energy Code, C s about this report, co	nmercial Buildings includi sary to check a permit app commercial Provisions. ntact WSEC Commercial	licati Tech
ARCO Pu Martin Wi Puyallup,	uyallup - 2018 WSE øy E , WA 98516	EC			Data: 2023-11-03	NA	C405.2.1.2	Occupant sensor controls - warehouses spaces	Ind wat zor
Applies	Code Section	Component	Compliance Information Required In Permit Documentation	Location in Documents	Building Department Notes	NA			Ind aut wh
LIGHTING	SCOPE								mir
NA	C103.1	Construction documents - General	For a shell & core or tenant space (first build- out) project, indicate if there is no lighting scope included in the project.			NÁ	C405.2.1.3	Occupant sensor	auta who For
NA	C103.1	Construction documents - General	For an alteration project, indicate if there is no lighting scope included in the project.					controls - open plan office areas	ind vac not
LIGHTING	CONTROLS								har
YES	C405.2	Lighting controls, general	For all lighting fixtures, indicate lighting control method on plans for spaces and	E1.0		NA	C405.2.1.4	Occupant sensor	Zon
NA	C405.2, Option 2	Luminaire level lighting controls (LLLC)	Indicate on plans all fixtures provided with LLLC in lieu of C405.2 lighting controls; provide description of control capabilities and performance parameters					controls - parking garages	pro ligh con no elig
NA	C405.2.5, Item 3 C405.2.1.1 C405.2.3.1	Lighting in dwelling units (dormitory, hotel and all other than multifamily)	Indicate method of automatic control of all installed luminaires in dwelling units in buildings other than multifamily (occupancy or light reduction controls)			NA	C405.2.1.5	Occupant sensor controls - enclosed fire-rated stairwells	Ind vac not
NA	C405.2.5, Item 2	Lighting in sleeping units	Indicate method of automatic off control of all installed luminaires in sleeping units (vacancy or key card control); also refer to Receptacles			NA	C405.2.2.1	Automatic time switch controls	Indi
YES	C405.2.3 C405.2.3.1 C405.2.5	Manual controls	Indicate on plans the method of manual lighting control, location of manual control device and the area or specific application it	E1.0		NA			Ind cor full
YES	C405.2.3.1 C405.2.1.1 C405.2.4	Manual interior light reduction controls	serves Indicate on plans which method of manual 50% lighting load reduction is provided, or indicate applicable exception	E1.0		NA			Ind pla tha doe
YES	C405.2.1 C405.2.2.1 C405.2.1,	Method of automatic shut-off control	Indicate on plans the method of automatic shut-off control during unoccupied periods (occupancy sensor, time switch or digital	E1.0		NA	C405.2.1, Exception 3	Digital timer switch	Ind ma ind
VED	Exception 3	Desumant concer	umer switch) for all lighting zones	ELO		YES	C405.2.4.2	Daylight zones - Sidelit and taniit	ind
1 103	2403.2.1	controls	controlled by occupant sensor controls; indicate controls are configured to turn luminaires 100% off when the space is	151.17		NÁ	UTU5.2.7.3	STREETS HIRE WELLS	Ind pla

Page 1/10

Indicate if occupant sensor controls are E1.0

configured to be manual on or sutomatic on to not more than 50% power; indicate spaces eligible for exception that allows automatic on to 100% power

unoccupied

C405.2.1 Occupant sensor C405.2.1.1 controls

YES

/23, 2:44 PM	weener	gycodes.cc	m/print_proje	eot_summa	ry_form.php	o?k=¥29t¥n	n9fdGZ2X3B0	P₩x0Z18	zY29wZ	VeuZXdfaW	60ZXJpb	3IIN0NwZF9	uZXdf	Yn∀pbGRpbmomd	GZ2PV	Vx0Z19zY29wZV9	
	1	Do these fixt	ures require sea	nifis appilon	ion lighting a	antrols?; Nan	e recuired										
Recessed de	ownlight	E			E1.0			LEÒ			Remi				New		
	0	Fixture Deser	ription: 6" Reco	used Downli	ght					Are these fix	tures leest	ed within a day	light zo	ee?: Yes, controls pro	vided		
	1	Daylight zon	e location(s): Si	idəlit daylişh	zones (prim	ary and/or see	ondary)			Dimming me	thod: Con	inuous dimnin	Ш.				
	1	Do these fixe	ures require spe	cific applicat	kon lighting o	entrols?: Non	a required						· ·				
50	spended	B /B	E		E1,0			LEO			Repuil				Naw		
	1	Fixture Desc	ription: 4 LED	Suspended						Are these fix	tures locat	ed within a day	light zo	ne?: Yes, controls pro	vided		
]	Daylight zon	a logation(s); Si	idəlik deytişti	t zones (prim	ary and/or see	ondary)			Dimming me	thod; Coni	inyous dimmin	g				
	1	Do these fixe	uras require spe	reifie applicat	ion lighting t	entrols?: Non	e reçuired										
Other fix	ture (ype	83	}		B\$1.0)		LEO			Rotall				New		
	1	Pixture Desci	ription: LED St	rip Light						Are these fix	tures leest	ed within a day	light zo	nø?: No			
	0	Do these fixe	ures coquica spa	ncific applicat	ion lighting c	iontrols?: Non	e recuired										
Other fix	ture type	D			E1,0			LEO			Renail				Naw		
	1	Fixture Desc	ription: Refrige	ration Liught						Are these fix	tures locat	ed within a day	light zo	00?: No			
	1	Do these fixe	ares require spe	roifio applicar	ion lighting o	iontrols?: Non	e rəçisirəd										
Project Title	ARCO I	Puyallup -	2018 WSEC	2										Date	Nov (03, 2023	
ghting Power Calcu	lation		NEW BUIL	DING - E	XTERIOR	LIGHTIN	íG					C	ompli	iance Verification		IPLIES	
erior Lighting Zone						ZONI	E 2		Bas	e Site Allowan	ice					400	
			:														
					_	Exterio	n Tradabla Ligh	ting Domor	Allenven								
		r				Exterio	F Tradable Ligh	illing rower	Anowan		Total X	Votte Allowed					
Tradable Su	rface		Tradable	Surface Sub-	Тура	Surface Area (SF)	LPA (Watts/SF)	Linea Feet (L	r F) (1	LPA Watts/LF)	(LPA x SF) or (LPA x LF)			Total Tradable Proposed Watts		iable Compliance Status	
Building entrance	s and exits	8	En	ry canopies		211	0.25					53					
Outdoor st	ukas		Sales cane	pios - free sta	nding	7,585	0.40				3,034						
Uncovered parking as	अक्षत समये देव	rivas				63,314	0.04					2,533					
									Bise SH	te Allowance		400					
										Totals		6,019		2,493		COMPLIES	
						n		lat n	D 14								
	_		· · · · · · · · · · · · · · · · · · ·			Propos	ed Tradable Li	gnting Pow	er Densit	ly Milesse						T-4-1 13/-44-	
Fixture Type	Fi	ixture ID		Trad	able Surface	Type		Quantit Fixtures	y af (#F)	Waitage per Fix (Wpl	or Limit ture F)	Total Line Feet (LB	sar)	Watts per Lines Foot (WpLF)	æ	Proposed (#F x WpF) or (LF x WpLF)	
ividual Fixtures																	
Çan	ogy	G2	Bu	liding ontene	oos and oxits	Betry canopi	93	2		35						70	
Can	opy	G	Bu	ilding entran:	ses and exits	 Batry sample 	\$\$	3		70						209	
Can	ору	\$1	Qe	tdoor sales -	Salos canopie	rs - ĉeoo stancil	ng	18		102						1,836	
Pole-mour	nəd	82		Uncevered p	aricing aroos	anti drives -		ő		63					_	378	
														Tradable Proposed	Total	2,493	
								Domain'	a Dara C	ite Allennen	Watte				00		
								Remainin	g Dase S	ne Anowance	watts			4	00		
Extension New Translation Flowers 4 Research																	
on-Tradable Surface	Nan-Tradable Surface Sub-Type Surface LPA # of Irems						LPA	igning row	Total Wa	atts Allowed x SF) or	Total No Propo	n-Tradable sed Watts	Non-T	radable Proposed	Non-T	radable Compliance	
Area (SF) (Watts/SF) # 61 rents (Watts p						(watts per # o	or items)	(LPA x	# of Items)	by Sur	face Type	watt	S Exceeding LPA		actions		
Building faqada 3,062 0.075								230 423		193							
										Total Propose	d Watts Ex	coording LPA	gLPA -193.3				
					_					Remaini	ng Base Si	te Allowanse		207		COMPLIES	

		Prop	osed Non-Tradable Ligh	ting Power Density			
Fixture Type	Fixture ID	Tradable Surface Type	Quantity of Fixtures (#F)	Watts or Wattage Limit per Fixture (WpF)	Total Linear Feet (LF)	Watts per Linea: Foot (WpLF)	f Total Watts f Proposed (#F x WpF) or (LF x WpLF)
dividual Fixture							
Facade	F	Building foqate -	uilding faqade - 9				423
Project Title ARCC	Puyallup - 2018 WSE	с				Da	te Nov 03, 2023
roposed Fixtures Details	NEW BUI	LDING - EXTERIOR LIGH	TING				
Fixture Type	Pisture ID	Location	in Documents	Lamp T	ipo Tes	dable Surface Type	New or Existing-to-Remain
dividual Fixtures							
Canopy	G2		B1.0	LED	Buildi	ng entrances and exits - Entry canopies	New
	Fixture Description: LED C	anopy Light		-	Do these focado &	fixtures require specific ox landscape, closing time of	terior lighting controls?: Buildin f controls
Савору	G		B1.0	LED	Buildi	ng cotrances and exits - Entry canopies	New
	Fixture Description: LEO Ó	anopy Light			Do those facado &	fixtures require specific ex landscape, closing time of	terior lighting controls?: Buildi f gontrols
Canopy	81	E81	.1, E81.2	LED	Outdoo	r sales - Sales zanopies - free standing	New
	Fixture Description: LEO C	anopy Light			Do these sansing o	fixiures require specific ex ff controls	terior lighting controls?: Daylig
Polo-mounted	52	1	5 51,0	LED	Unco	vered parking areas and drives -	New
	Fixture Description: LEO P	ole Mounted Light			Do these sensing c	fixiures require specific ex ff controls	terior lighting controls?: Daylig
Fixture Type	Fixture ID	Location	in Documents	Lamp Ty	npe Non-I	radable Surface Type	New or Existing-to-Remain
dividual Fixture							
Facada	F		E1,9	LED	1	Building Aşadə -	New

	2/3
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d Electrical Requirements List, pg 2 of 10 rerdial Buildings including Group R2, R3 & R4 over 3 stories & all R1 Administered by @2023 NEEA, All rights reserved				, Motor a	nd Electrical	Requirements List, pg 3	of 10	Lighting, Motor and Electrical Requirements List, pg 4 of 10								
arcial Buildings includir y to check a permit app imercial Provisions. ict WSEC Commercial 1	g Group R2, R3 & R4 over 3 stories & all R1 ication for compliance with the lighting systems, fechnical Support at 360-539-5300 or via email a	Administered by @2023 NEEA, All rights reserved motors and electrical system requirements in the t com.techsupport@waenergycodes.com	2018 WSEC Re The following in Washington Sta For questions a	quirements for Con formation is necess te Energy Code, C pout this report, con	nmercial Buildinge Includ sary to check a permit ap ommercial Provisions. ntact WSEC Commercial	Ing Group R2, R3 & R4 over 3 stories & all R1 plication for compliance with the lighting systems, Technical Support at 360-539-5300 or via email a	Administered by @2023 NEEA, All rights reserved motors and electrical system requirements in the at com.techsupport@waenergycodes.com	2018 WSEC Reg The following info Washington State For questions abo	uirements for Co rmation is neces Energy Code, C but this report, co	mmercial Buildings Includ sary to check a permit ap Commercial Provisions. ontact WSEC Commercial	Ing Group R2, R3 & R4 over 3 etories & ell R1 – , plication for compliance with the lighting systems, i Technical Support at 360-539-5300 or via email a	Administered by @2023 Methods and electrical sys t com.techsupport@wae	IEEA, All rights reserved tem requirements in the nergycodes.com			
Occupant sensor controls - warehouses spaces	Indicate each aisleway and corridor within a warehouse space are designated as separate zones that are independently controlled		YES	C405.2.4	Daylight responsive controls	Indicate on plans lighting zone(s) served by daylight responsive controls; indicate that the area served by each control device does not	B1.0	NA			Indicate method of manual lighting control and applicable automatic lighting control					
-1	Indicate occupant sensors are configured to automatically reduce lighting power by 50%		NA			exceeds 2,500 sf Identify sidelit and topilt daylight zones that		YES	C405.2.5, Item 5	Means of agress lighting	Identify on plans agress fixtures that function as both normal and emergency means of egress illumination	E1.0				
	when the zone is unoccupied and 100% off after the zone is unoccupied for over 20 minutes; indicate controls are configured to					are not provided with daylight sensing controls and the exception(s) that apply		YES			Provide calculation of lighting power density of total egress lighting	E1.0				
Occupant sensor	automatically restore lighting to full power when the zone or space is occupied For open plan office areas larger than 300 sf.		YES	C405.2.4.1.1	Dayugna responsive controls	Inducate on plans the lighting load reduction method (continuous dimming, or stepped dimming that provides at least two even steps between 0%-100% of rated power)	81.0	NA			If total egress lighting power density is greater than 0.02 W/sq. ft., indicate on plans egress fixtures requiring automatic shut-off during					
controls - open plan office areas	incloate general lighting is provided with vacancy controls that reduce lighting power by not less than 80% and are configured to turn		YES	C405.2.4.1	Daylight responsive controls	Indicate that daylight sensing controls are configured to completely shut off all	E1.0	YEŜ			unoccupied periods Indicate method of automatic shut-off control	E1.0				
Occupant sensor	Includes that to what the total grade to bird lunchaltes 100% off when the space is unoccupied; indicate that no individual control zone area exceeds 600 sf Indicate parking garage general lighting is		NA	C405.2.5	Additional controls - Specific application lighting controls	controlled lights in the lighting zone Identify spaces and lighting fixtures on plans that require specific application lighting controls per this section		NA	C405.4.1 C405.4.2	Lighting control of exempt interior lighting	Indicate that exempt interior lighting equipment and lighting located within spaces that are eligible for a lighting power exemption are controlled independently from					
controls - parking garages	provided with vacancy controls that reduce lighting power by not less than 30% and are configured to turn luminaires 100% off when no vehicles or pedestrians are present, unless eligible for an exception; indicate that no		NA	C405.2.5, Item 1	Display and accent lighting	Indicate on plans that manual controls are provided that control display, accent lighting and display case lighting independently from both general area lighting and other lighting medications within the agree mano		ŇA	C405.2.6	Exterior lighting controls	non-exempt and general area lighting For decorative exterior lighting, indicate on plans automatic daylight shut-off controls, or exception taken					
Occupant sensor controls - enclosed	individual control zone area exceeds 3,600 sf Indicate stairway lighting is provided with vacancy controls that reduce lighting power by not less then 50% when the minimum in		NA			Indicate manual and automatic (occupant sensor or time switch) lighting control methods		YES			For exterior lighting that is not decorative, indicate on plans automatic daylight or time- switch shut-off controls and setback controls; or indicate exception taken	E1.0,ES1.0,ES1.1				
Automatic time switch controls	Indicate spaces on plans where time switch controls turn luminaires 100% off during unoccupied hours		NA	C405.2.5, Item 3	Hotel/motel guest rooms	Indicate method of automatic control - vacancy or captive key control of all installed luminaires and switched receptacles in guest room		YES			For lighting requiring setback controls, include control sequence that reduces lighting power by at least 30% between 12am-6am, or from 1 hour after closing to 1 hour before opening, or based upon motion sensor	E1.0,E\$1.0,E\$1.1				
	Indicate spaces on plans where time switch controls are configured to turn on lighting to full power versus 50% power		NA	C405.2.5, Item 1	Supplemental task lighting	Indicate method and location of manual and automatic shut-off control (occupant sensor or time switch) for supplemental task lighting, including under-shelf or under-cabinet lighting.		YES			For building facade and landscape lighting, indicate control sequence for shut-off control is based on dawn-to-dusk and business opening/closing schedule; indicate whether	E1.0,ES1.0,ES1.1				
	Indicate locations of override switches on plans and the lighting zone(s) served; indicate that the atea(s) served by each override switch		NA	C403.2.5, Item 1	Lighting equipment for sule or	Indicate on plans that lighting equipment for sale or demonstration are controlled					automatic or time switch controls will be provided for this function					
Digital timer switch	does not exceeds 5,000 sf Indicate digital timer switch control includes: manual on/off, time delay, audible and visual				demonstration	independently from both general area lighting and other lighting applications within the same space		NA	C405.3.2	Lighting control of exampt exterior lighting	Indicate that exempt exterior lighting and lighting located within exterior areas/surfaces that aligible for a lighting power exemption are controlled independently from non-					
Daylight zones - Sidelit and toplit	Indicate primary and secondary sidelik daylight zone floor areas on plans	E1.0	NA			Indicate manual and automatic (occupant sensor or time switch) lighting control methods		NA	C405.5.4	Exterior gas-fired	exempt exterior lighting Indicate ignition system is a method other than postimum in humans with light					
-	Indicate toplit daylight zone floor areas on plans		NA	C405.2.5, Item 4	Lighting for non- visual applications	Identify all eligible non-visual lighting applications on plans; indicate that the area area in each centrel during days not		NA	C405.2.7	Area controls - Master control	Indicate location(s) of master control switch(es) intended to control multiple					
	For small vertical fenestration assemblies (rough opening less than 10 percent of		NA			exceeds 4,000 sf				switches and circuit power limit	independent switches; circuit breaker may not be used as a master control switch					
	primary daylight zone floor area) where daylight responsive controls are not required, provide fenestration area to daylight zone floor area calculation(s)		10			controlled independently from both general area lighting and other lighting applications within the same space		NA			Verify that no 20 amp circuit controlled by a single switch or automatic control is loaded beyond \$0%					
								ADDITIONAL	EFFICIENCY	CREDIT - ENHANCE	D INTERIOR LIGHTING CONTROLS					

Paga 2/10

NA

Paga 3i10

FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITTEE ON SITE FOR ALL INSPECTIONS <u>(MIN. PLAN SIZE 24" X 36")</u>

PRCNC20231424

bn





Barghausen Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com



Abossein

Engineering,

L.L.C.

MECHANICAL – ELECTRICAL CIVIL – LEED FIRE PROTECTION 18465 NE 68TH ST REDMOND, WA 98052

www.abossein.com

https://www.waenergycodes.com/print_project_summary_form.php?k=Y29tYm9fdGZ2X3B0PWx0Z19zY29wZV9uZXdfaW50ZXJpb3IIN0NwZF9uZXdfYnVpbGRpbmomdGZ2PWx0Z19zY29wZV9uZXdfa... 3/3

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2012 WOLD Do	, Motor a	nd Electrica	l Requirements List, pg 5	of 10	Lightin	ıg, Motor a	and Electrical	Requirements List, pg 6	of 10	Lighting, Mo	otor and Electric	al Requirements List, pg 7 of 10	
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NA	C406.4	Enhanced digital lighting controls	To comply with additional efficiency credit, indicate on plans that interior lighting fixtures are configured with all of the following control functions, as applicable: 1) Each fixture is individually addressed, or exception taken; 2) Fixtures are configured for continuous dimming; 3) No more than eight fixtures are controlled by a single daylight sensor; 4) In enclosed and open office areas, illumination levels of overhead general area lighting is configured to be individually		NA ADDITION YES	C405.4.2.2 AL EFFICIENCY C406.3.1	Space-By-Space Method CREDITS - REDUCE Reduced interior	Demonstrate that total proposed waitage does not exceed maximum allowed waitage; identify locations of space types on plans, including retail display areas and areas with display, highlight and decorative lighting; provide WSEC exterior lighting compliance reports D INTERIOR LIGHTING POWER DENSITY To comply with additional efficiency credit,	E5.0,E5.1	YES LIGHTING ALTER	ATIONS	Demonstrate that proposed wattage per non- tradable surface type does not exceed maximum allowed wattage per non-tradable surface type (including base site allowance remaining after tradable allowance calculation); identify locations of non-tradable surfaces on plans; provide WSEC exterior lighting compliance reports	
NA			adjusted by occupants Include calculations that demonstrate the total lighting power of all interior lighting fixtures configured with enhanced lighting controls is no less than 90% of the total interior lighting power for the area the enhanced lighting controls credit is being applied to			C406.3.2	lighting power density	demonstrate that total connected interior lighting wattage is 10% or 20% less than the total maximum allowed lighting wattage for the area the reduced lighting power credit is being applied to; indicate whether lighting power allowance is based on the building area method or space-by-space method; provide WSEC exterior lighting compliance reports		NA C:	503.6.1 Interior and parki garage lighting fixture alterations	Where ≥ 50% of existing luminaires in an interior space or parking garage are replaced; indicate compliance path (building area or space-by-space method); include all new and existing-to-remain luminaires in WSEC interior lighting compliance reports; indicate proposed lighting wattage does not exceed maximum allowed per compliance path	
INTERIÓR L	IGHTING POW	ER & EFFICACY	Include all luminaines in interior lighting	EU	NA	C406.3	Reduced interior lighting power density - dwelling	For project with dwelling units, to comply with additional efficiency credit indicate in lighting fixture schedule that lamps within		NA		Where < 50% of existing luminaires in an interior space or parking garage are replaced; indicate total existing lighting wattage in each	
YES	C405.4.2	interior lighting power	fixture schedule; indicate fixture types, temps, ballasts, and manufacturer's waits per fixture for the installed lamp Identify spaces eligible for lighting power	E5.0, E5.1			unit lamp efficacy	installed interior luminaires have an efficacy rating of at least 65 lumens per watt; include number of lamps and provide calculations that demonstrate at least 95% of lamps have this efficacy rating				space prior to alteration; include all new and existing-to-remain luminaires in WSEC interior lighting compliance reports; indicate proposed total lighting wattage in alteration area does not exceed total existing lighting	
			exemption on plans and in WSEC interior lighting compliance reports; indicate the exception applied		EXTERIO	R LIGHTING POV	VER & EFFICACY	tuskois all tumbulase la susselar lleititue	H10 HB10 HB11	NA		wattage prior to alteration Where $\geq 50\%$ of existing exterior lighting	
NA			Identify lighting equipment eligible for lighting power exemption in fixture schedule and in WSEC interior lighting compliance reports; indicate the exception applied		NA	C405.5.2	axtarlor lighting power	Include all fummanes in exterior lighting fixture schedule; indicate fixture types, lamps, ballasts, and manufacturer's watts per fixture for the installed lamp Identify exterior applications eligible for	B1.0,E31.0,E31.1			wattage is replaced; include all new and existing-to-remain luminaires in WSEC exterior lighting compliance reports; indicate proposed total exterior lighting wattage does not exceed maximum allowed	
NA	C405.1 C405.1.1	Lighting in dwelling units (multifamily)	For all installed luminaires, include lamp type and number of lamps in lighting fixture schedule; for lamps that are not LED, T-8 or small diameter fluorescelt, indicate efficacy		YHS	(405 5 3(1)	Retarior lighting zone	lighting power exemption on plans and in WSEC exterior lighting compliance reports; indicate exception applied	R50.E51	NA		Where < 50% of existing exterior lighting wattage is replaced; indicate total existing lighting wattage prior to alteration; include all new and existing-to-remain luminaires in	
NA			For all installed luminaires, indicate in		YES	C405.5.1	Exterior building	specified by the AHJ For building grounds fixtures rated at greater	B1.0,ES1.0,ES1.1			WSEC interior exterior compliance reports; indicate proposed total exterior lighting wattage does not exceed total existing wattage	
INCA			lighting fixture schedule whether complying via lighting power density or by qualifying lamp type; if by lamp type, include number of lamps		EXTERIOR	R LIGHTING POV	grounds lighting	than 50 watts, indicate ruted lamp efficacy (in lumens per watt) in fixture schedule		NA C:	503.6.2 Interior lighting wiring and circuit alterations	prior to alteration Where new wiring is installed to serve new interior luminaires and /or luminaires are relocated to a new circuit; indicate manual	
NA			For all installed luminaires, indicate in lighting fixture schedule whether complying via lighting power density or by qualifying lamp type; if by lamp type, include number of lamps		YES	C405.5.3	Tradable allowances	Demonstrate that total proposed tradable surface wattage does not exceed maximum allowed tradable surface wattage (including base site allowance); identify locations of tradable surfaces on plans; provide WSEC	B5.0,E5.1			and automatic lighting controls are provided (as applicable) - manual (C405.2.3); occupancy sensor (C405.2.1); light reduction (C405.2.3); daylight responsive (C405.2.4); specific application (C405.2.5)	
INTERIOR L YES	IGHTING POW C405.4.2.1	ER CALCULATION - Building Area Method	INDICATE COMPLIANCE PATH TAKEN Demonstrate that total proposed wattage per building area does not exceed maximum allowed wattage per building area; identify locations of building means on plans, provide	E5.0,E5.1				exterior ngnang compliance reports		NA		Where new wiring is installed to serve new exterior luminaires and /or luminaires are relocated to a new circuit; indicate automatic lighting controls are provided (C405.2.6)	
			WSEC exterior lighting compliance reports										
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NA	C406.4	Enhanced digital lighting controls	To comply with additional efficiency credit, indicate on plans that interior lighting fixtures are configured with all of the following control functions, as applicable: 1) Each fixture is individually addressed, or exception taken; 2) Fixtures are configured for continuous dimming; 3) No more than eight fixtures are controlled by a single daylight sensor; 4) In enclosed and open office areas, illumining length of surched anomedia	NA	C405.4.2.2	Space-By-Space Method CREDITS - REDUCEI	Demonstrate that total proposed wattage does not exceed maximum allowed wattage; identify locations of space types on plans, including retail display areas and areas with display, highlight and decorative lighting; provide WSEC exterior lighting compliance reports	YES	TERATIONS		Demonstrate that proposed wattage per non- tradable surface type does not exceed maximum allowed wattage per non-tradable surface type (including base site allowance remaining after tradable allowance calculation); identify locations of non-tradable surfaces on plans; provide WSEC exterior lighting compliance reports
NA			Illumination levels of overhead general area lighting is configured to be individually adjusted by occupants Include calculations that demonstrate the total lighting power of all interior lighting fixtures configured with enhanced lighting controls is no less than 90% of the total interior lighting power for the area the enhanced lighting controls credit is being applied to	YES	C406.3.1 C406.3.2	Reduced interior lighting power density	To comply with additional efficiency credit, demonstrate that total connected interior lighting wattage is 10% or 20% less than the total maximum allowed lighting wattage for the area the reduced lighting power credit is being applied to; indicate whether lighting power allowance is based on the building area method or space-by-space method; provide WSEC exterior lighting compliance reports	NA	C503.6.1	Interior and parking garage lighting fixture alterations	Where ≥ 50% of existing luminaires in an interior space or parking garage are replaced; indicate compliance path (building area or space-by-space method); include all new and existing-to-remain luminaires in WSEC interior lighting compliance reports; indicate proposed lighting wattage does not exceed maximum allowed per compliance path
INTERIOR LI YES	GHTING POW C405.4.1 C405.4.2	VER & EFFICACY Total connected interior lighting power	Include all luminaires in interior lighting E1.1 fixture schedule; indicate fixture types, lamps, ballasts, and manufacturer's watts per fixture for the installed lamp	NA	C406.3	Reduced interior lighting power density - dwelling unit lamp efficacy	For project with dwelling units, to comply with additional efficiency credit indicate in lighting fixture schedule that lamps within installed interior luminaires have an efficacy rating of at least 65 lumens per watt; include number of lamps and provide calculations that	NA			Where < 50% of existing luminaires in an interior space or parking garage are replaced; indicate total existing lighting wattage in each space prior to alteration; include all new and existing-to-remain luminaires in WSEC interior lighting compliance reports; indicate
YES			Identify spaces eligible for lighting power E5.0, E5.1 exemption on plans and in WSEC interior lighting compliance reports; indicate the execution availant	EXTERIOR I	IGHTING POW	VER & EFFICACY	efficacy rating	NA			area does not exceed total existing lighting wattage prior to alteration
NA			Identify lighting equipment eligible for lighting power exemption in fixture schedule and in WSEC interior lighting compliance reports; indicate the exception applied	YES	C405.5.2	Total connected exterior lighting power	Include all luminaines in exterior lighting E1.0,ES1.0,ES1.1 fixture schedule; indicate fixture types, lamps, ballasts, and manufacturer's watts per fixture for the installed lamp				where 2 50% of existing exterior lighting wattage is replaced; include all new and existing-to-remain luminaires in WSEC exterior lighting compliance reports; indicate proposed total exterior lighting wattage does not exceed maximum allowed
NA	C405.1 C405.1.1	Lighting in dwelling units (multifamily)	For all installed luminaires, include lamp type and number of lamps in lighting fixture schedule; for lamps that are not LED, T-8 or small diameter fluorescent, indicate efficacy of other lamp types is 65 lumens per watt or	YES	C405.5.3(1)	Exterior lighting zone	Indentry exterior applications slightle for lighting power exemption on plans and in WSEC exterior lighting compliance reports; indicate exception applied Indicate building exterior lighting zone as E5.0,E5.1	NA			Where < 50% of existing exterior lighting wattage is replaced; indicate total existing lighting wattage prior to alteration; include all new and existing-to-remain luminaires in
NA			greater For all installed luminaires, indicate in lighting fixture schedule whether complying via lighting power density or by qualifying lamp type; if by lamp type include number of	YES	C405.5.1	Exterior building grounds lighting	specified by the AHJ For building grounds fixtures rated at greater than 50 watts, indicate rated lamp efficacy (in lumens per watt) in fixture schedule	NA	C503.6.2	Interior lighting	indicate proposed total exterior lighting wattage does not exceed total existing wattage prior to alteration Where new wiring is installed to serve new
NA			Iamps For all installed luminaires, indicate in lighting fixture schedule whether complying via lighting power density or by qualifying lamp type; if by lamp type, include number of lamps	EXTERIOR I YES	LIGHTING POW C405.5.3	VER CALCULATION Tradable allowances	Demonstrate that total proposed tradable E5.0,E5.1 surface wattage does not exceed maximum allowed tradable surface wattage (including base site allowance); identify locations of tradable surfaces on plans; provide WSEC exterior lighting compilance reports			wiring and circuiting alterations	interior luminaires and /or luminaires are relocated to a new circuit; indicate manual and automatic lighting controls are provided (as applicable) - manual (C405.2.3); occupancy sensor (C405.2.1); light reduction (C405.2.3); daylight responsive (C405.2.4); specific application (C405.2.5)
INTERIOR LI YES	GHTING POW C405.4.2.1	VER CALCULATION Building Area Method	INDICATE COMPLIANCE PATH TAKEN Demonstrate that total proposed wattage per building area does not exceed maximum allowed wattage per building area; identify locations of building areas on plans; provide WSEC exterior lighting compliance reports					NA			Where new wiring is installed to serve new exterior luminaires and /or luminaires are relocated to a new circuit; indicate automatic lighting controls are provided (C405.2.6)
			Page 3/10				Page 6/10				Page 7/10
Lighting	, Motor a	and Electrica	l Requirements List, pg 8 of 10		, Motor a	nd Electrical	Requirements List, pg 9 of 10	Lighting, 2018 WBEC Requ	Motor an	nd Electrica mercial Buildings includ	I Requirements List, pg 10 of 10
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Lighting 2018 WSEC Reg The following info Washington State For questions ab	Motor a	and Electrica mmercial Buildings Inclu ssary to check a permit a Commercial Provisions. Intact WSEC Commercial Lighting panel alterations	Al Requirements List, pg 8 of 10 Iding Group R2, R3 & R4 over 3 stories & all R1 Administered by @2023 NEEA, All rights reserved application for compliance with the lighting systems, motors and electrical system requirements in the al Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com Where a new interior and/or exterior lighting panel is installed or an existing panel is moved (all new raceway and conductor wiring), indicate all applicable lighting controls requirements and/or	Lighting 2018 WSEC Red Washington Stat For questions at NA YES	y Wotor a guinements for Conformation is necessible te Energy Code, C boout this report, co C405.6 C405.11	nd Electrical mmarcial Buildings includi sary to check a permit app commercial Provisions. Intact WSEC Commercial Electrical transformers Feeders and branch	Requirements List, pg 9 of 10 ng Group R2, R3 & R4 over 3 stories & all R1 Administered by @2023 NEEA, All rights Dication for compliance with the lighting systems, motors and electrical system requirement Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com Include electrical transformer schedule on electrical plans; indicate transformer type, size, efficiency, or exception taken Provide documentation that demonstrates 144.0	Lighting, reserved 2018 WSEC Regund Ints in the Washington State m For questions above NA	Motor an inements for Com- mation is necessar Energy Code, Co Aut this report, con C408.1.2 C408.1.2 C408.1.2.1 C408.1.4 C103.6.3	nd Electrical mercial Buildings Inclus try to check a permit ap menercial Provisions. tact WBEC Commercial Commissioning requirements in construction documents	I Requirements List, pg 10 of 10 ding Group R2, R3 & R4 over 3 stories & all R1 Administered by @2023 NEEA, All rights reserves oplication for compliance with the lighting systems, motors and electrical system requirements in the I Technical Support at 360-539-5300 or via email at com.techsupport@wasnergycodes.com Include general summary of Cx plan per C408.1.2 including: 1) Narrative description of activities; 2) Responsibilities of the Cx team; 3) Schedule of activities including verification of project close out
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	Barghausen Consulting Engineers, Inc. 18215 72nd Avenue South Kent, WA 98032
	425.251.6222 barghausen.com NO. DATE REVISION DESCRIPTION △
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	ABOR ACCISTERED CARS
	DEVELOPMENT INFORMATION: ARCO NTI 3400 am/pm FUEL CANOPY w/ 6 MPD's
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MECHANICAL – ELECTRICAL CIVIL – LEED FIRE PROTECTION 18465 NE 68TH ST REDMOND, WA 98052	ENERGY CODE FORMS
PH: (425) 462-9441 FAX: (425) 462-9451 E-Mail: cservice@abossein.com www.abossein.com	E5.1

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Equipment 9 (00) 0 0.00 200 40,946 41,146 Pool Latent 0 0 0.00 0 0 0 People 30 0 0.00 6,000 9,375 15,375 Partition 0 0 0.00 0 0 0 Cool. Pret. 0 0 0.00 0 0 0 Heat. Pret. 0 0 0.00 5,804 8,457 14,261 Heat. Vent. 650 37,363 38.99 0 0 0 Cool. Infil. 330 23,898 24.94 0 0 0 Draw-Thru Fan 0 0 0.00 0 0 0 Blow-Thru Fan 0 0 0.00 0 0 0 Reserve Cap. 0 0 0.00 0 0 0 Reheat Cap. 0 0 0.00 0 0 0 <tr< td=""><td>12.96</td></tr<>	12.96
People 30 0 0.00 6,000 9,375 15,375 Partition 0 0 0.00 0	33.16
Partition 0 0 0.00 0 0 0 0 Cool. Pret. 0 0 0.00 0 0 0 0 Heat. Pret. 0 0 0.00 0 0 0 0 Cool. Vent. 650 37,363 38.99 0 0 0 0 Heat. Vent. 650 37,363 38.99 0 0 0 0 Cool. Infil. 330 0 0.00 2,866 5,465 8,330 Heat. Infil. 330 23,898 24.94 0 0 0 Draw-Thru Fan 0 0 0.00 0 1,072 1,072 Blow-Thru Fan 0 0 0.00 0 0 0 0 Reserve Cap. 0 0 0.00 0 0 0 0 Supply Duct 0 0 0.00 0 0 0 0 0 Mise. Supply 0 0 0.00 0 0 0 0	12.39
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Heat Pret. 0 0 0.00 <	0.00
Cool. Vent.65000.00 $5,804$ $8,457$ $14,261$ Heat. Vent.650 $37,363$ 38.99 000Cool. Infil.33000.00 $2,866$ $5,465$ $8,330$ Heat. Infil.330 $23,898$ 24.94 000Draw-Thru Fan000.0001,0721,072Blow-Thru Fan000.00000Reserve Cap.000.00000Reheat Cap.000.00000Supply Duct000.00000Return Duct000.00000Mise. Supply000.00000	0.00
Heat. Vent. 650 37,363 38,99 0 0 0 Cool. Infil. 330 0 0.00 2,866 5,465 8,330 Heat. Infil. 330 23,898 24.94 0 0 0 Draw-Thru Fan 0 0 0.00 0 1,072 1,072 Blow-Thru Fan 0 0 0.00 0 0 0 Reserve Cap. 0 0 0.00 0 0 0 Reheat Cap. 0 0 0.00 0 0 0 Supply Duct 0 0 0.00 0 0 0 Return Duct 0 0 0.00 0 0 0 Misc. Supply 0 0 0.00 0 0 0 0	11.49
Cool. Infil. 330 0 0.00 2,866 5,465 8,330 Heat. Infil. 330 23,898 24.94 0 0 0 Draw-Thru Fan 0 0 0.00 0 1,072 1,072 Blow-Thru Fan 0 0 0.00 0 0 0 Reserve Cap. 0 0 0.00 0 0 0 Reheat Cap. 0 0 0.00 0 0 0 Supply Duct 0 0 0.00 0 0 0 Return Duct 0 0 0.00 0 0 0 Mise. Supply 0 0 0.00 0 0 0	0.00
Heat. Infil. 330 23,898 24,94 0 0 0 Draw-Thru Fan 0 0 0,00 0 1,072 1,072 Blow-Thru Fan 0 0 0,00 0 0 0 Reserve Cap. 0 0 0,00 0 0 0 Reheat Cap. 0 0 0,00 0 0 0 Supply Duct 0 0 0,00 0 0 0 Return Duct 0 0 0,00 0 0 0 Mise. Supply 0 0 0,00 0 0 0	6.71
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Reserve Cap. 0 0 0.00 0 0 0 Reheat Cap. 0 0 0.00 0	0.00
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	0.00
MISC RETURN II II II IIII II II II II II	0.00
Building Totals 95,816 100.00 14,870 109,214 124,084 1	100.00
Duilding Con NTet Lat Con Not	0/ Mict
Bunung Sen wrot Lat Sen Net	Calia
Summary LOSS LOSS Gain Gain Gain	<u> </u>
Ventilation 37,363 30.99 5,004 0,457 14,201	G 71
Protrested Air 0 0.00 0 0 0.00	0.71
Room Loads 34.554 36.06 6.200 94.220 100.420	80.93
Plenum Loads 04,004 0 000 0 04,220 100,420	0.00
Fan/Duct/Misc Loads 0 0.00 0 1,072 1,072	0.86
Building Totals 95,816 100.00 14,870 109,214 124,084 1	100.00
Check Figures	
Total Building Supply Air (based on a 21° TD): 4,539 CFM Total Building Vent. Air (14.32% of Supply): 650 CFM	
T-4-1 O	
Supply Air Der Unit Area: 1,2038, CEM/Se ft	
Area Per Cooling Canacity: 364.7 Sq ft/Ton	
Cooling Capacity Per Area: 0.0027 Tons/Sq.ft	
Heating Capacity Per Area: 25.41 Btuh/Sq.ft	
Total Heating Required With Outside Air: 95β16_Btuh Total Cooling Required With Outside Air: 10.34_Tons	

C:\...\ARCO_PUYALLUP WA_MAIN STORE.CH8

Monday, September 25, 2023, 04:17 PM

MECH	IANICA	L COM	PLIA	NCE SUM	MARY															
2018 WSEC	Compliance	Forms for Co	mmercial	Buildings includin	g Group R2, R3	& R4	over 3 stori	ies and all	RI								Administered	by: ©2023	NEEA,	All rights reserved
				Project Title				ARCO	NTI - 2018	WSEC		For Bu	ilding De	epartment Use:				Dat	· .	Sen 25 2023
10000000000000000000000000000000000000				Project Address			SWO	C S MERI	IDIAN @ H	HIGHWAY 512								Dat		Sep 25, 2025
Project & A	pplicant			Ann Beant Name				PUYA	LLUP, WA	98371 als		_								
Intermation				Applicant Phon					26 462 Q4	(K (1		-								
				Applicant Emai	i			Pary WO	mack@abo	ssein.com										
2				For question	s about this repo	ort, cor	ntact WSEC	Commer	rcial Techni	cal Support at .	360-539-53	300 or via er	mail at co	m.techsupport(waenergy	codes.co	m			
				1			1								1					
General Oc	cupancy			All	Commercial		Genera	al Buildin	ig Use Typ	e	Reta	il, Convenie	nce/Fuel	Dispensing	Building	Cond.	Floor Area		3,7	71
Conceral Pro	iont Tumor			New Puilding	New Building		Si-	ala Zona	Custome &	Faviament	Alteratio	оп			Project Q	bound. F	oor Area		3,7	Л
General Fre	feet types			New Building	Mechanical Se	cope	au	igie zone	Systems &	requipment	Mechan	ical Scope			Complia	nce Met	thod	Complia	nce Met	thod 1 - General
Mechanical	Project Des	cription				-	_			ROOFT	OP PACK	AGED HEAT	TPUMP	S WITH DOAS	10000			company		
					Protont Tree		Marke			Econom	izer	DO.	AS Vent	ilation		Hig	her Equipment		Equi	pment Efficiency
	Me	schanical Con Scone and Ma	ethod		Project Type	e	MICCLE	imeai seo	pe	Applic	d?	16:53	Provide	d?	1	Efficien	y Option Applied?		Comp	liance Verification
		orope and an			New Building	g Sin	gle Zone Sy	ystems &	Equipment	Yes			Yes				NA			COMPLIES
Additional I	Efficiency					- 10	040 0		101											
Credits Incl	uded (AEC)						¥.,			Description	hada a	046							-	¥
Based on pr	ng include of	cupancy clas	sincation	s requiring DOAS			Yes			Does project	include D	with Appen	ment?	andard mforon	co doelan a	ar quali	v for an exemption	to TSPD?	-	No
Dated on pr	ofer scope (In ISI KIEge	incincuts	appiy:			110			Do an eyeten	is comply	with Appen	uir D'eu	ALIGNI G TETET EI	ce utsign t	n quan	y for an exception	U I SI K		No
Scope & S	space Con	ditioning		NEW BUILD	ING - SINGI	LE Z	ONE SY	STEMS	s & EQU	IPMENT							Compliance Ver	rification	C	OMPLIES
Single Zone	Air System	Category - E	leat pump	p, unitary, thru-w	all, SDHV															
Air Systems	Summary I	Onentity	6	an hu Ainflanu	-			Ve	atilation (2234	Ventil	ation			1				E.	Deserver
System/H	Equip ID	of Items	34	Control	Ventilation	Stand	dard	(Total	if Multiple	: Items)	Air So	ource	Pairc	d with DOAS		Ventil	ation energy recover	ry	I	Efficiency (%)
	RTU-2		Con	istant volume	IMC Ven	ntilatio	ac.	24	400		Separate	DOAS		ERV-1	3	les per C	403.7.6 Energy Rec	overy		77
	RTU-1		Varia	ble air volume	IMC Ven	ntilatio	n		400		Separate	DOAS		ERV-1	3	les per C	403.7.6 Energy Rec	overy		77
Air Systems	& Foutome	nt - Cooling																		
System/	a squiping		-		Cooling Capac	city	AEC Eff	clency	Econo	Exception	Cor	mbined Effi	ciency	Proposed	Cooling	CE	Proposed Part	PL	Efficie	ency Compliance
Equip ID	Cooling S	ystem/Equip	Туре	Specific Type	per item (Btu/	/h)	Multip	lier	Multiplic	r (FL & PL)	Multip	plier (AEC	& Econo) Effici	ency	Units	Load Efficiency	Units	1	/erification
RTU-2	Heat p	ump, air coole	ed.	Single package	84,500	_	1			0		1		11	.9	EER	12.0	IEER	(COMPLIES
RTU-1	Heat p	ump, air coole	ed.	Single package	54,500		1		_	0		1		14	.3	SEER		IEER	(COMPLIES
Air Systems	& Equipme	nt - Heating																		
System /Equip ID	Heating	System/Equip	Туре	Specific Type	Heat Pump B	leatin	ng Capacity	y (Btu/h)	Cooli	ng Capacity (B	stu/h) [/]	AEC Efficie Multiplie	ncy F	Proposed Heat Heating Effici	Pump H ency U	IPH] Inits	Proposed Low OSA Temp Efficiency	LTH Units	Efficie	ency Compliance Verification
RTU-2	Heat pum	p, air cooled, h	heating	Single package		86,	,000			84,500		1		12,0		COP	2.3	COP	(COMPLIES
RTU-1	Heat pum	p, air cooled, l	heating	Single package		57,	,800			54,500		1		8.2	H	ISPF		COP	(COMPLIES
Air Systems	& Equipme	nt Details																		
System	m/Equip ID			Area(s) Served				Loca	tion In Pr	oject Documer	its - Plan/	Detail #								
RTU	J-2{{detail-2:	289}}	ALL	SPACES{{detail-	255}}				м	1.0 { {detail-22'	72}}									
	- 332	System	/Equip ID	for a single or mu	Itiple items?: Sin	ngle ite	em			A-10	5127									
		Heatin	g Section/	Auxiliary Heating	Type: Other sour	907								Econom	izer Compl	iance M	ethod: Air-side econ	omizer pro	vided	
		WSEC	Equip Eff	ficiency Reference	Table - Cooling:	Table	C403.3.2(2	2) - Unitar	ry and Appl	ied Heat Pump	IS			-						
		Propos	ed Low O	SA Temp Efficienc	y: 2.3	Table	C402 2 20	1) Their		ind Unst D				LTH Un	its: COP					
PTT	-1//detail-2	WSEC	ALI	SPACES //detail	Table - meaning:	rable	403.3.2(2	c) - Unitar	y and Appl	1 Offdetail-22	7211									
- KIU	- T [[ucum#Z.	System	/Equin ID	for a single or mu	Itiple items?: Sin	ngle ite	em		N/I		-11									
-		10,000	- And and and	and a surger of the	dia	and the								_						
		Heatin	g Section/.	Auxiliary Heating	Type: Other sour	rce								Econom	izer Compl	iance M	ethod: Air-side econ	omizer pro	vided	
		WSEC	Equip Eff	ficiency Reference	Table - Cooling:	Table	C403.3.2(2	2) - Unitar	ry and Appl	ied Heat Pump	IS									
	Proposed Low OSA Temp Efficiency:									LTH Un	LTH Units: COP									
L		WSEC	Equip Eff	nciency Reference	Table - Heating:	Table	403.3.2(2	2) - Unitar	ry and Appl	ted Heat Pump	5									

PRCNC20231424



L.L.C.

ENVELOPE COMPLIANCE SUMMARY

PRCNC20231424

2018 WSEC Compliance Forms	for Commercial Buildings	including Group R2	, R3 & R4 over 3	3 stories and all R1
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	Project Title		ARCO Puyallup - 2018 WSEC F		For Building Depart	tment Use:		Date	Nov 03 2023
Project & Applicant	Project Address		1402 South Meridian Puyallup, WA 98371	1402 South Meridian Puyallup, WA 98371				Date.	1107 05, 2025
Information	Applicant Name		Monika Uehlin						
	Applicant Phone		425-251-6222						
	Applicant Email		muehlin@barghausen.com						
	For questions about this	report, cc	ontact WSEC Commercial Technical Suppo	ort at 360-53	9-5300 or via email	at com.techsupport@waenergycodes.com	1		
			1			1			
General Occupancy	All Commercial	Genera	al Building Use Type(s)	Retail, C	Convenience Store	Building Cond. Floor Area		3,34	19
						Project Cond. Floor Area		3,34	19
Project Scope	New Building	Space (Conditioning Categories	Full	y Conditioned	Floors Above Grade		1	
						Compliance Method	Con	pliance Met	nod 1 - General
Envelope Project Description	This project is a new	ARCO at	mpm convenience store. Construction is ty	pe V-B, wo	od framed construction	on with supporting documentation consist	ing of permit d	rawings prep	ared for this project.

Envelope Compliance Scope and	Scope	Space Conditioning Category	Compliance Method	WWR/SRR per Category	UA Calculation Adjustment	Fenestration Alternates	Compliance Verification
Method	New Building	Fully Conditioned	Component performance	19.22% / 0%	None selected	No alternates selected	COMPLIES

Air Barrier Testing	Air barrier testing included in project scope	Air Barrier Comments	

Project Title	Project TitleARCO Puyallup - 2018 WSECDateNov 03, 2023						e Nov 03, 2023
Scope & Space Cond	e & Space Conditioning NEW BUILDING - FULLY CONDITIONED Compliance Verification COMPLIES			MPLIES			
Window-to-wall Ratio19.22%Skylight-to-roof-ratio0%Vertical		Vertical Fenestration Alternate		No alternates selected			

Opaque Envelope Assemblies								
				Insu	lation R-Values			
Roof/Ceiling	Location in Documents	Assembly ID	Assembly Location	Cavity	Continuous (% penetration)	2nd Layer (MB Roof)	U-Factor	Net Area (SF)
Insulation entirely above deck	G1.6	RF-1	Exterior		R-38 (< 0.04%)		U-0.027	3,349
	U-Factor Source: Computed			U-Factor Source Description	on:			
	Is this assembly exterior or interior?: Exter	rior						
Walls	Location in Documents	Assembly ID	Assembly Location	Cavity	Continuous (% penetration)	Insulated Wall Furring	U-Factor	Net Area (SF)
Wood-framed and other - Commercial	G1.6	W-1	Exterior	R-21	R-0 (< 0.04%)		U-0.048	3,250
	Which insulation code target does wall cor	nply with?: R-21 Cavity	+ Intermediate Framing	U-Factor Source: Compute	d			
	-Factor Source Description:			Wall Framing Type (Standa	Wall Framing Type (Standard, Inter., Advanced): Standard			
	Framing Depth: 2x6	raming Depth: 2x6			Framing Spacing: 16			
	Is this assembly exterior or interior?: Exter	rior						
Slab-on-grade Floors	Location in Documents	Assembly ID	Assembly Location	Slab Edge	Under Slab		F-Factor	Perimeter Length (SF)
Unheated slab	G1.6	S-1	At grade level	R-10	R-0		F-0.54	252
	Slab Insulation Method: 2 ft vertical (from	top of slab downward)		F-Factor Source: WSEC Ap	ppendix A			
	F-Factor Source Description:							
Fenestration & Opaque Door Assemblies	•							
				Insu	lation R-Values			
Vertical Fenestration	Location in Documents	Assembly ID	Assembly Location	Orientation	Shading (PF)	Fenestration SHGC	Fenestration U-Factor	Rough Opening (SF)
Fixed - Class AW or site built	G1.6	F-1	Exterior	South/East/West Facing	PF < 0.2	SHGC-0.35	U-0.32	773

https://waenergycodes.com/print_project_summary_form.php?k=Y29tYm9fdGZ2X3B0PXNjY19mdWxseV9jb25kaXRpb25lZCU3Q3BkX25ld19idWlsZGluZyZ0ZnY9c2NjX2Z1bGx5X2NvbmRpdGlvbmVk... 1/4

11/3/23, 12:59 PM waenergycodes.com/print_project_summary_form.php?k=Y29tYm9fdGZ2X3B0PXNjY19mdWxseV9jb25kaXRpb25lZCU3Q3BkX25ld19idWlsZGluZyZ0ZnY9c2NjX2Z1bGx5X2Nvb...

U-Factor & SHGC Source: NFRC Rating	U-Factor Source Description:
Is this assembly exterior or interior?: Exterior	

PRCNC20231424

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waenergycodes.com/print_project_summary_form.php?k=Y29tYm9fdGZ2X3B0PXNjY19mdWxseV9jb25kaXRpb25lZCU3Q3BkX25ld19idWlsZGluZyZ0ZnY9c2NjX2Z1bGx5X2Nvb...

Project Title ARCO Puyallup -	2018 WSEC					1	Date Nov 03, 202				
U x A Cal	culation	NEW BUILDIN	NG - FULLY (CONDITIONED)		COMPLIES				
	Opaque Envelope Assemblies			PROPOSED			TARGET				
Roof/Co	iling	Assembly ID	Roof/Ceiling Assembly U- Factor	Net Area (SF)	U x A	Roof/Ceiling Assembly U- Factor	Net Area (SF)	U x A			
	Insulation entirely above deck	RF-1	0.027	3,349.0	90.4	0.027	3,349.0 (1)	90.4			
			Wall	Wall							
Wal	ls	Assembly ID	Assembly U- factor	Net Area (SF)	U x A	Assembly U- factor	Net Area (SF)	U x A			
	Wood-framed and other - Commercial	W-1	0.048	3,249.5	156.0	0.054	3,249.5 (1)	175.5			
	Slab on Grade Floors			PROPOSED			TARGET				
Slab-on-gra	de Floors	Assembly ID	F-Factor	Perimeter Length (LF)	U x A	F-Factor	Perimeter Length (LF)	U x A			
	Unheated slab	S-1	0.54	252.0	136.1	0.54	252.0 (1)	136.1			
Fene	stration and Opaque Door Assemblies			PROPOSED			TARGET				
Vertical Fer	estration	Assembly ID	Fenestration Assembly U- Factor	Rough Opening (SF)	U x A	Fenestration Assembly U- Factor	Rough Opening (SF)	U x A			
	Fixed - Class AW or site built	F-1	0.32	773.0	247.4	0.38	773.0 (1)	293.7			
	Proposed Area	Proposed U	xA		Target Area		Target Ux	A			
Project Totals	7,624	630			7,624		696				

PRCNC20231424

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waenergycodes.com/print_project_summary_form.php?k=Y29tYm9fdGZ2X3B0PXNjY19mdWxseV9jb25kaXRpb25lZCU3Q3BkX25ld19idWlsZGluZyZ0ZnY9c2NjX2Z1bGx5X2Nvb...

Project Title ARCO Puya	oject Title ARCO Puyallup - 2018 WSEC							Date Nov 03, 2023		
SHGC x A Calculation NEW BUILDING - FULLY CONDITIONED COMPLIES					IES					
Fenestration and Opaque Door Assemblies PROF				PROPOSED			TARGE	T		
Vertical Fenestration - S	Assembly ID	PF	Fenestration SHGC	Rough Opening (SF)	SHGC x A	Fenestration SHGC	Rough Openi (SF)	ng SHGC x A		
	Fixed - Class AW or site built	F-1	PF < 0.2	0.35	773.0	270.6	0.38	773.0 (1)	293.7	
	Proposed Area	Pi	oposed SHGC x	A	T	arget Area		Target SHGC x A		
Project Totals	773		271			773		294		

PRCNC20231424

Building Envelope Requirements List, pg 1 of 9

2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2023 NEEA, All rights reserved The following information is necessary to check a building permit application for compliance with the building envelope requirements in the Washington State Energy Code, Commercial Provisions.

For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

Project: ARCO Puyallup - 2018 WSEC 1402 South Meridian Puyallup, WA 98371

PRCNC20231424

Date: 2023-11-03

Applies	Code Section	Component	Compliance Information Required In Permit Documentation	Location in Documents	Building Department Notes
SCOPE			·		
	C103.1	Construction documents - General	For a tenant space (first build-out) project, indicate if there is no envelope scope included in the project.		
	C103.1	Construction documents - General	For an alteration project, indicate if there is no envelope scope included in the project.		
	C402.1.1.1	Low energy spaces	Identify low energy spaces on plans; include calculations if applicable that demonstrate eligibility for envelope provisions exemption		
	C402.1.1.2	Semi-heated spaces	Identify semi-heated spaces on plans, include mechanical heating system type and calculations that demonstrate eligibility for wall insulation exemption		
	C402.1.1.3	Greenhouse spaces	Identify greenhouse spaces on plans; include non-opaque assembly information and mechanical heating system type if applicable, that demonstrates eligibility for envelope provisions exemption		
	C402.1.2	Equipment buildings	Provide building sf area, average wall and roof U-factor, installed electrical and mechanical equipment information and heating setpoint restriction, that demonstrates eligibility for envelope provisions exemption		
NA	C402.1.2.1	Standalone elevator hoistways	Provide building area, average wall and roof U-factor, installed mechanical equipment information and heating setpoint restriction, that demonstrates eligibility for envelope provisions exemption		
	C410.2	Walk-in cooler and freezer spaces	Identify walk-in cooler and freezer spaces on plans; including site assembled, site constructed and prefabricated units		
			Identify warehouse cooler and freezer spaces on plans		
	C101.4.1	Mixed residential & commercial building	Identify spaces with different occupancy requirements on plans		
	C503.2	Change of space conditioning alteration	Identify on plans existing unconditioned spaces changing to semi-heated or conditioned space, and existing semi-heated spaces changing to conditioned space; provide calculations for existing and final level of space conditioning		
	C505.1	Change of occupancy alteration	Identify on plans existing F, S and U- occupancy spaces undergoing a change in occupancy and final occupancy type		

Building Envelope Requirements List, pg 2 of 9

2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2023 NEEA, All rights reserved The following information is necessary to check a building permit application for compliance with the building envelope requirements in the Washington State Energy Code, Commercial Provisions.

			Group R spaces permitted before July 1, 2002 that are undergoing a change to a commercial occupancy shall be identified on plans	PRCNC	20231424	
			Commercial (non-Group R) occupancy spaces undergoing a change to Group R shall be identified on plans			
ENVELOPE PR	OVISIONS					
YES	C103.2 C103.6.3 C402.1.3 C402.1.4	Compliance documentation	Indicate envelope thermal performance compliance path (prescriptive or component performance) and provide WSEC envelope compliance reports	Component Performance, please see WSEC forms.		
YES	C402.1.5		If complying via component performance, demonstrate that the Proposed Total UA is equal to or less than the Allowable Total UA	WSSEC Forms		
			If complying via total building performance, provide a list of all proposed envelope component types, areas and U-values			
YES	C303.1.1 C303.1.2	Insulation identification	Indicate identification mark shall be applied to all insulation materials and insulation installed such that the mark is readily observable during inspection	G1.6		
YES	C303.1.3 C402.4.3	Fenestration product rating	Indicate fenestration products shall be labeled with NFRC U-factor, SHGC, VT and leakage rating, or if products do not have an NFRC rating, indicate applicable Chapter 3 default values	G1.6		
YES	C303.1.1 C402.2.1	General insulation installation	Indicate installation methods, thicknesses, densities and clearances to achieve the intended R-value of all insulation materials	G1.6		
YES			Where two or more layers of rigid insulation will be used, indicate that edge joints between layers are staggered, or exception taken	G1.6		
YES	C103.2 C402.2.1	Roof assembly insulation	Indicate R-value(s) of cavity/continuous insulation on roof sections	G1.6		
YES			Indicate framing materials on roof sections	\$1.3 AND A3.1-A3.3		
NA			Indicate method of framing for ceilings below vented attics and vaulted ceilings per A102.2 (std, adv)			
YES			Provide area weighted average U-factor calculation for insulation whose thickness varies by 1 inch or less	WSEC forms and G1.6		
YES			Indicate effective U-factors of tapered insulation entirely above deck per A102.2.6; include roof configuration and slope, maximum R-value at peak and minimum R- value at low point for all roof surfaces	G1.6		
NA			Indicate R-values for thermal spacers and each insulation layer, and liner system (LS) method for metal building roofs			

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	C402.2.1.1	Skylight curb	Indicate skylight curb insulation R-value on			
		Insulation	rating		PRCN	C20231424
YES	C402.2.1.2	Rooftop HVAC equipment curbs	Indicate rooftop HVAC equipment curb insulation R-value on roof section	G1.6		
YES	C103.2 C402.2.3	Above/below grade wall insulation	Indicate R-value(s) of cavity/continuous insulation on wall sections	G1.6		
YES	C402.2.4 C303.2.1		Indicate framing materials on wall sections	G1.8 AND A3.1-A3.3		
YES	-		Indicate method of framing for wood construction per A103.2 (std, int, adv)	G1.8 AND V FORMS	VSEC	
NA	-		Indicate material density category, wall weight and heat capacity for qualifying mass walls			
NA	-		For qualifying ASTM C90 masonry walls, indicate loose-fill core insulation material and percentage of cores filled including grouted cores, bond beams, vertical fills, headers and any other grouted cores			
NA			Indicate method of protection of exposed exterior basement/crawlspace wall insulation			
	C103.2 C402.4.4	Opaque doors	Indicate rated U-factor or R-value (non- swinging) on wall sections or in door schedules - applies to doors with less than 50% glazed area			
NA	C402.4.4	Garage doors	Indicate rated U-factor for sectional and tilt- up garage doors on wall sections or in door schedules - applies to garage doors with less than 14% glazed area; all other garage doors shall comply as opaque doors			
	C402.2.5	02.2.5 Floor over outdoor or unconditioned space insulation	Indicate R-value(s) of cavity/continuous insulation on floor sections			
			Indicate framing material on floor sections			
			Indicate material density category and weight of qualifying mass floors			
YES	C402.2.6 C303.2.1	Slab-on-grade floor insulation	Indicate R-value of continuous insulation on wall section or foundation detail	G1.6		
YES	-					
			Indicate insulation extends down vertically and/or horizontally the required distance from top of slab	G1.6		
YES			Indicate insulation extends down vertically and/or horizontally the required distance from top of slab Indicate method of protection of exposed exterior slab edge insulation	G1.6 G1.6		
YES			Indicate insulation extends down vertically and/or horizontally the required distance from top of slab Indicate method of protection of exposed exterior slab edge insulation Indicate R-value of continuous insulation on wall section or foundation detail	G1.6 G1.6		

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NA			Indicate method of protection of eveneed	PRCNC20221424		
			exterior slab edge insulation	PRCINC20231424		
NA	C402.2.8	Radiant heating system insulation	Indicate insulation R-value behind radiant panels, U-bend/headers and bottom surface of radiantly heated floors (other than heated slab- on-grade)			
YES	C402.4.1 C502.2.1	Vertical fenestration maximum area	Provide total gross sf area of all above grade wall elements and rough opening sf area of all vertical fenestration elements in the building, for the prescriptive max allowed window-to- wall ratio (WWR) calculation in the WSEC envelope compliance reports; demonstrate compliance for each space conditioning category separately	WSEC FORMS		
	C402.4.1.1 C405.2.4.1 C502.2.1	Increased prescriptive maximum vertical fenestration area with daylight zones and controls	Provide calculations showing that not less that 50% of the total conditioned floor area is within a daylight zone; demonstrate compliance for each space conditioning category separately			
			Indicate in envelope plans that all lighting fixtures located within daylight zones shall be provided with daylight responsive controls per Section C405.2.4.1			
			Indicate that the VT of vertical fenestration is at least 1.1 times the rated SHGC or no less than VT-0.55, whichever is greater			
	C402.4.1.3 C502.2.1	Increased prescriptive maximum vertical	Indicate high performance U-factors and SHGC values in fenestration schedules			
		high-performance	Indicate if an area-weighted U-factor is used for multiple fenestration elements within the same fenestration category per Table C402.4; provide area-weighted U-factor calculation			
	C402.1.5	Wall/vertical fenestration target area adjustment	Indicate if component performance with target area adjustment will be used to account for vertical fenestration area in excess of the prescriptive maximum allowed; include target area adjustment in WSEC envelope compliance reports			
	C402.4.1 C502.2.2	Skylight maximum area	Provide total gross sf area of roof, and rough opening sf area of all skylight elements in the building, for the prescriptive max allowed skylight-to-roof ratio (SRR) calculation in the WSEC envelope compliance reports; demonstrate compliance for each space conditioning category separately			
	C402.1.5.2	Roof/skylight target area adjustment	Indicate if component performance with target area adjustment will be used to account for skylight area in excess of the prescriptive maximum allowed; include target area adjustment in WSEC envelope compliance reports			

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YES	C402.4 C402.4.3.4 C303.1.3	.4 U-factors, SHGC and VT for all fenestration assemblies	Indicate U-factors, SHGC and VT values in fenestration schedules	G1.6 AND WSEC FORMS	
NA YES			Indicate if an area-weighted U-factor is used for multiple fenestration elements within the same fenestration category per Table C402.4; provide area-weighted U-factor calculation	PRCNC20231424	
	_		Indicate if values are NFRC or default; if default then specify frame type, glazing layers, gap width, low-e coatings, gas-fill	G1.6	
NA	C402.4.3	Permanent shading devices	For each group of windows with similar orientation and overhang or permanent projection geometry, provide projection factor calculations (Equation C4-6) for north and non-north orientations		
	C402.4.2	Single story spaces requiring skylights	Provide list of enclosed, single story spaces that exceed 2,500 sf; for each space identify the space use, floor area, floor to ceiling height, whether skylights are installed, and any exception taken		
		C410.2 Walk-in and warehouse cooler and freezer envelope	Provide calculations for percentage of conditioned floor area located within a toplit daylight zone; if exception is taken for spaces where the total floor area minus the sidelit zone area is less than 2,500 sf, include percentage of conditioned floor area located within a sidelit daylight zone in calculations		
			Provide calculations for percentage of skylight area in each space over 2,500 SF, OR		
			Provide calculations for skylight effective aperture (Equation C4-5) for each space over 2,500 SF		
			Indicate haze factor of skylight glazing material or diffuser		
	C410.2		Indicate insulation R-value in cooler and freezer wall and ceiling assemblies		
	freezer		Indicate cooler and freezer door insulation R- value; indicate method of minimizing infiltration (strip doors, curtains, spring- hinged doors, etc); provide automatic door closure (or note exception taken)		
			For transparent reach-in doors and fixed windows, indicate number of glass panes (double or triple pane); identify whether the interstitial spaces between panes is filled with inert gas or if panes are heat-reflective treated glass		

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NA	C406.10	Enhanced envelope performance	To comply with additional efficiency credit, demonstrate envelope thermal performance compliance via component performance; provide WSEC envelope compliance reports that demonstrate Proposed Total UA is 15% lower than the Allowable Total UA	PRCNC20231	424	
AIR LEAKAGE		·				
YES	C402.5.1.1	Air barrier construction and	Identify location and provide diagram of continuous air barrier in plans and sections	G1.6		
YES		sealing	Provide details for all joints, transitions in materials, penetrations in air barrier and note method of sealing (caulked, gasketed, or other approved method)	G1.6		
NA	C402.5.3 C402.1.3 C402.1.4	Rooms containing fuel burning space conditioning appliances	For room(s) located within the conditioned space that contain non-direct vent fuel- burning appliances that require outdoor air for combustion, indicate method of isolation from the conditioned space; include sealing of walls, floor and ceiling of room, doorway gasketting and sealing around ductwork and piping penetrations			
NA			Indicate walls, floor and ceiling of the room envelope are insulated to the same level required for exterior envelope, and combustion air ductwork that passes thru conditioned space is insulated to at least R-8			
NA	C402.5.4	02.5.4 Doors and access openings to shafts, chutes, stairways and elevator lobbies	Indicate locations of all doors and access openings to shafts, chutes, stairways and elevator lobbies			
NA			Indicate method of sealing of these openings (gasketing, weatherstripping, other sealing method); or exception taken			
NA	C402.5.5 C403.7.8	C402.5.5 C403.7.8 e	Outdoor air intakes, exhausts and relief openings	Indicate locations of all stairway enclosure, elevator shaft and building pressurization relief openings, outside air intakes and exhaust openings		
YES			Note in envelope plans that all relief, outside air intake and exhaust openings shall be provided with dampers in accordance with Mechanical Section C403.7.8	G1.6		
NA	C402.5.8	Recessed lighting in building envelope	Indicate method of sealing between light fixture housing and wall or ceiling			
NA			Note in envelope plans that all recessed lighting fixtures shall be IC rated and have an air leakage rating not greater than 2 cfm per ASTM E283 test; include these requirements in lighting fixture schedules			
	C402.5.6	Loading dock seals	Indicate weather seal at cargo and loading dock doors			

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	C402.5.7	7 Vestibules	Indicate locations and dimensions of vestibules for building entrances; also indicate vestibule information for exit-only doors in buildings where separate doors for entering and exiting are provided	PRCNC	20231424
YES			Indicate locations of all building entrances and exit-only doors provided with an air curtain in lieu of a vestibule	Q1.1	
			Indicate exception and criteria utilized for all building entrances and exit-only doors that do not have a vestibule or air curtain		
			Indicate required performance for air curtains installed per Exception 7		
			For unconditioned vestibules, indicate which envelope assembly (interior or exterior) complies with the requirements for a conditioned space		
YES	C103.2 C402.5.1.2C 402.5.1.2.1	Building enclosure air leakage test	Indicate in project documents that building enclosure air leakage testing is required for WSEC compliance	G1.6	
NA	R402.4.1.2		Provide area calculations that account for all six sides of the air barrier boundaries		
YES			For commercial buildings, indicate that building enclosure air leakage testing shall be performed per ASTM C779 (or equivalent method approved by the code official) and the target leakage rate is 0.25 cfm/ft2 (1.5 L/s*m2) at 0.3 in. wg (75 Pa)	G1.6	
YES			If the building is mixed residential / commercial and three stories or less above grade plane, indicate which building enclosure air leakage test procedure will be used for the Group R-2 / R-3 areas (Section R402.4.1.2 or C402.5.1.2); if per R402.4.1.2, indicate that the target leakage rate is 5 air changes per hour at 0.2 in. wg (50 Pa)	G1.6	
YES			Include the following requirements in project documents: (1) Submit building enclosure air leakage test reports to jurisdiction and owner; (2) If initial test result exceeds 0.25 cfm/ft2 (1.5 L/s*m2), indicate that inspection and all practical corrective actions be completed and documented in the air leakage test report; (3) If initial test result exceeds 0.40 cfm/ft2 (2.0 L/s*m2), indicate that corrective actions shall also include re-testing; (4) Indicate that corrective measures and retesting must be repeated until the test result is 0.40 cfm/ft2 (2.0 L/s*m2) or less; (4) Include air barrier test report in project close out documentation provided to building owner.	G1.6	
ADDITIONAL	EFFICIENCY (CREDITS - REDUCED	AIR INFILTRATION	1	1

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NA	C406.9	Reduced air infiltration	To comply with additional efficiency credit, indicate in project documents that the building enclosure air leakage test results shall not exceed 0.17 cfm/ft2 at 0.3 in. wg (75 Pa); all documentation requirements per C103.2 and C402.5.1.2 apply	PRCNC20231424
ALTERATIONS	5			
	C503.1 C503.3.1	Roof alteration - insulation	For a roof alteration where existing ceiling cavities are exposed, indicate cavities are insulated to full depth at minimum nominal value of R-3.0 per inch	
			For a roof covering replacement where insulation is installed entirely above the roof deck, indicate insulation complies with requirements for new construction per Tables C402.1.3 or C402.1.4	
	C503.1	Wall and floor alteration - insulation	For a wall or floor alteration (floor over outdoor or unconditioned space) where existing envelope cavities are exposed, indicate cavities are insulated to full depth at minimum nominal value of R-3.0 per inch	
	C503.3.2	Addition of vertical fenestration	Where the addition of new vertical fenestration results in a window-to-wall ratio (WWR) exceeding the prescriptive maximum allowed per C402.4.1, demonstrate method of compliance (prescriptive vertical fenestration alternate, component performance with target area adjustment for the alteration area and existing-to-remain areas combined, or total building performance per C407); demonstrate for each space conditioning category separately	
	C503.3.3	Addition of skylights	Where the addition of new skylights results in a skylight-to-roof ratio (SRR) exceeding the prescriptive maximum allowed per C402.4.1, demonstrate method of compliance (component performance compliance with target area adjustment for the alteration area and existing-to-remain areas combined, or total building performance per C407), demonstrate for each space conditioning category separately	
NA	C103.2 C103.6.3 C503.2 C505.1	Change in space conditioning or occupancy compliance documentation	Indicate envelope alteration thermal performance compliance path (prescriptive or component performance with 110% allowance); provide WSEC envelope compliance reports	
NA	C103.2 C103.6.3 C503.2C 505.1	Change in space conditioning or occupancy compliance documentation	If complying via total building performance with 110% allowance, provide a list of all proposed envelope component types, areas and U-values	
PROJECT CLO	SE OUT DOCU	JMENTATION		I

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YES	C103.6.3	Project close out	Indicate in plans that project close out	G1.6			
		documentation	documentation is required including				
		requirements	applicable calculations, WSEC envelope				
			compliance reports, and fenestration NFRC			000004404	
			rating certificates		PRCN	1C20231424	