MECHANICAL COMPLIANCE SUMMARY

2018 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

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Project & Applicant Information

Mechanical Project Description

City of P	uyallup	Project Title	Red Dot T.I. at Puyallup Logistics - 2018 WSEC					
evelopment & Permitting Services		Project Address	2504 East Main Ave Puyallup, WA 98372					
Building Planning			ruyanup, WA 96572					
Engineering	Public Works	Applicant Name	AIDAN WILSON					
V/A 1979	-67	Applicant Phone	253-939-5501					
Fire Traffic		Applicant Email	DESIGN@UNIVERSALREFRIG.COM					

For Building Department Use:
THE APPROVED CONSTRUCTION PLANS,
DOCUMENTS AND ALL ENGINEERING MUST
BE POSTED ON THE JOB AT ALL
INSPECTIONS IN A VISIBLE AND READILY
ACCESSIBLE LOCATION.

FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE

Install all mechanical systems per plan to include (5) Doas units, (13) VRF indoor heat pumps that include (1) outdoor section heat pump. Included also are (2) smaller split system heat pumps.

City of Puyallup
Building
ACCEPTED

JMontgomery
002520022
45645 PM

Date: Aug 22, 2022

Approval of submitted plans is not an

Approval of submitted plans is not an approval of omissions or oversights by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable codes and regulations of the local government.

General Occupancy	All (Commercial	General Building Use Type	Office, Other	Building Cond. Floor Area	10,385
General Project Types	New Building	New Building or Addition Mechanical Scope			Project Cond. Floor Area	10,385
			Single Zone Systems & Egypment	Alteration Mechanical Scope	Floors Above Grade	2
					Compliance Method	Compliance Method 1 - General

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

Mechanical Compliance Scope and Method	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	Yes	COMPLIES
Additional Efficiency Credits Included (AEC)	Higher equi	pment efficiency and fan FEG				
Does building include occupancy classifications requiring DOAS?		Yes	Does project include	Yes		
Based on project scope do TSPR requirements apply?		Yes	Do all systems compl TSPR?	Yes		

Scope & Space Conditioning	NEW BUILDING - SINGLE ZONE SYSTEMS & EQUIPMENT	Compliance Verification	COMPLIES

Single Zone Air Systems Category - Fan coil unit, hydronic & VRF

Air Systems Summary Informat	tion					
System/Equip ID	Quantity of Items	Supply Airflow Control	Ventilation Standard	Ventilation CFM (Total if Multiple Items)	Ventilation Air Source	Paired with DOAS
FCU-16		Constant volume	IMC Ventilation	125	Separate DOAS	ERV-6
FCU-13		Constant volume	IMC Ventilation	125	Separate DOAS	ERV-3
FCU-10		Constant volume	IMC Ventilation	75	Separate DOAS	ERV-3
FCU-19		Constant volume	IMC Ventilation	125	Separate DOAS	ERV-5
FCU-20		Constant volume	IMC Ventilation	125	Separate DOAS	ERV-6
FCU-11		Constant volume	IMC Ventilation	125	Separate DOAS	ERV-3
FCU-17		Constant volume	IMC Ventilation	75	Separate DOAS	ERV-5
FCU-14		Constant volume	IMC Ventilation	200	Separate DOAS	ERV-4
FCU-9		Constant volume	IMC Ventilation	25	Separate DOAS	ERV-3
FCU-18		Constant volume	IMC Ventilation	125	Separate DOAS	ERV-5
FCU-21		Constant volume	IMC Ventilation	125	Separate DOAS	ERV-6
FCU-12		Constant volume	IMC Ventilation	125	Separate DOAS	ERV-3
FCU-15		Constant volume	IMC Ventilation	65	Separate DOAS	ERV-5

Air Systen	Air Systems & Equipment - Cooling										
System/ Equip ID	Cooling System/Equip Type	Specific Type	Cooling Capacity per item (Btu/h)				Proposed Cooling Efficiency		Proposed Part Load Efficiency		Efficiency Compliance Verification

Р	R	C	ГΙ	2	N	2	2	N	R	73	2
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								l	
FCU-16	Fan coils, hydronic & VRF, cooling	VRF	24,000	1.15	0		<u> </u>		COMPLIES
FCU-17	Fan coils, hydronic & VRF, cooling	VRF	18,000	1.15	0				COMPLIES
FCU-9	Fan coils, hydronic & VRF, cooling	VRF	8,000	1.15	0				COMPLIES
FCU-10	Fan coils, hydronic & VRF, cooling	VRF	18,000	1.15	0				COMPLIES
FCU-18	Fan coils, hydronic & VRF, cooling	VRF	24,000	1.15	0				COMPLIES
FCU-19	Fan coils, hydronic & VRF, cooling	VRF	18,000	1.15	0				COMPLIES
FCU-11	Fan coils, hydronic & VRF, cooling	VRF	24,000	1.15	0				COMPLIES
FCU-20	Fan coils, hydronic & VRF, cooling	VRF	36,000	1.15	0				COMPLIES
FCU-12	Fan coils, hydronic & VRF, cooling	VRF	24,000	1.15	0				COMPLIES
FCU-21	Fan coils, hydronic & VRF, cooling	VRF	24,000	1.15	0				COMPLIES
FCU-13	Fan coils, hydronic & VRF, cooling	VRF	36,000	1.15	0				COMPLIES
FCU-14	Fan coils, hydronic & VRF, cooling	VRF	36,000	1.15	0				COMPLIES
FCU-15	Fan coils, hydronic & VRF, cooling	VRF	18,000	1.15	0				COMPLIES

Air System	s & Equipment - Heating								
System /Equip ID	Heating System/Equip Type	Specific Type	Heat Pump Heating Capacity (Btu/h)	Cooling Capacity (Btu/h)	AEC Efficiency Multiplier	Proposed Heat Pump Heating Efficiency	HPH Units	LTH Units	
FCU-19	Fan coils, hydronic & VRF, heating	VRF			1.15				COMPLIES
FCU-13	Fan coils, hydronic & VRF, heating	VRF			1.15				COMPLIES
FCU-20	Fan coils, hydronic & VRF, heating	VRF			1.15				COMPLIES
FCU-14	Fan coils, hydronic & VRF, heating	VRF			1.15				COMPLIES
FCU-21	Fan coils, hydronic & VRF, heating	VRF			1.15				COMPLIES
FCU-15	Fan coils, hydronic & VRF, heating	VRF			1.15				COMPLIES
FCU-9	Fan coils, hydronic & VRF, heating	VRF			1.15				COMPLIES
FCU-16	Fan coils, hydronic & VRF, heating	VRF			1.15				COMPLIES
FCU-10	Fan coils, hydronic & VRF, heating	VRF			1.15				COMPLIES
FCU-17	Fan coils, hydronic & VRF, heating	VRF			1.15				COMPLIES
FCU-11	Fan coils, hydronic & VRF, heating	VRF			1.15				COMPLIES
FCU-18	Fan coils, hydronic & VRF, heating	VRF			1.15				COMPLIES
FCU-12	Fan coils, hydronic & VRF, heating	VRF			1.15				COMPLIES

Air Systems & Equipment Details			
System/Equip ID	Area(s) Served	Location In Project Documents - Plan/Detail #	
FCU-16	OFFICE	ALL	
	System/Equip ID for a single or multiple items	s?: Single item	
	Cooling Capacity Source: CU-3		
	Heating Capacity Source: CU-3		
FCU-13	OFFICE	ALL	
	System/Equip ID for a single or multiple items	s?: Single item	
	Cooling Capacity Source: CU-3		
	Heating Capacity Source: CU-3		
FCU-10	OFFICE	ALL	
	System/Equip ID for a single or multiple items	s?: Single item	
	Cooling Capacity Source: CU-3		
	Heating Capacity Source: CU-3		
FCU-19	OFFICE	ALL	
	System/Equip ID for a single or multiple items	s?: Single item	
	Cooling Capacity Source: CU-3		
	Heating Capacity Source: CU-3	De	velopment & Permitting Services
FCU-20	OFFICE	ALL	ISSUED PERMIT
	System/Equip ID for a single or multiple items	s?: Single item	Building Planning
	Cooling Capacity Source: CU-3		Engineering Public Works
	Heating Capacity Source: CU-3		Fire OF W SHITTRAFFIC

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FCU-11	OFFICE		ALL		i
	System/Equip ID for a single or multiple items	?: Single item			
	Cooling Capacity Source: CU-3				
	Heating Capacity Source: CU-3				
FCU-17	OFFICE		ALL		
	System/Equip ID for a single or multiple items	?: Single item			
	Cooling Capacity Source: CU-3				
City of Puvallup	Heating Capacity Source: CU-3				
Development & Permitting Services FCU-14	OFFICE		ALL		
Building	System/Equip ID for a single or multiple items	?: Single item			
Engineering Public Works	Cooling Capacity Source: CU-3				
Fire	Heating Capacity Source: CU-3				
FCU-9	OFFICE		ALL		
	System/Equip ID for a single or multiple items	?: Single item			
	Cooling Capacity Source: CU-3				
	Heating Capacity Source: CU-3				
FCU-18	OFFICE		ALL		
	System/Equip ID for a single or multiple items	?: Single item			
	Cooling Capacity Source: CU-3				
	Heating Capacity Source: CU-3				
FCU-21			ALL		
	System/Equip ID for a single or multiple items	?: Single item			
	Cooling Capacity Source: CU-3				
	Heating Capacity Source: CU-3				
FCU-12			ALL		
	System/Equip ID for a single or multiple items	?: Single item			
	Cooling Capacity Source: CU-3				_
	Heating Capacity Source: CU-3				_
FCU-15			ALL		<u> </u>
	System/Equip ID for a single or multiple items	?: Single item			_
	Cooling Capacity Source: CU-3				<u> </u>
	Heating Capacity Source: CU-3				

Single Zone Air Systems Category - Heat pump, unitary, thru-wall, SDHV

Air Systems Summa	ir 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 (%)				
OHP-1/IHP-	1	Constant volume	Unoccupied, no ventilation requirement									
OHP-2/IHP-2,3,	4	Constant volume	Unoccupied, no ventilation requirement									

Air Systems & Eq	Air Systems & Equipment - Cooling										
System/ Equip ID	Cooling System/Equip Type	Specific Type	Cooling Capacity per item (Btu/h)	AEC Efficiency Multiplier		Combined Efficiency Multiplier (AEC & Econo)	Proposed Cooling Efficiency		Proposed Part Load Efficiency		Efficiency Compliance Verification
OHP-2/IHP-2,3,4	Heat pump, air cooled	Split system	36,000	1.15	0	1.15	16.1	SEER		IEER	COMPLIES
OHP-1/IHP-1	Heat pump, air cooled	Split system	24,000	1.15	0	1.15	16.1	SEER		IEER	COMPLIES

Air S	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		HPH Units	Proposed Low OSA Temp Efficiency	LTH Units	Efficiency Compliance Verification
(OHP-1/IHP-1	Heat pump, air cooled, heating	Split system	27,600	24,000	1.15	9.5	HSPF		COP	COMPLIES
OHI	P-2/IHP-2,3,4	Heat pump, air cooled, heating	Split system	36,000	36,000	1.15	9.5	HSPF		COP	COMPLIES

Air Systems & Equipm	ent Details	

PRCTI20220873

System/Equip ID	Area(s) Served Location In Project Documents - Plan/Detail #						
OHP-1/IHP-1	OHP-1/IHP-1 ELEVATOR MACHINE ROOM ALL						
	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 - Cooling: Ta	ble C403.3.2(2) - Unitary and Applied Heat Pumps					
	Proposed Low OSA Temp Efficiency:		LTH Units: COP				
	WSEC Equip Efficiency Reference Table - Heating: Ta	ble C403.3.2(2) - Unitary and Applied Heat Pumps					
OHP-2/IHP-2,3,4	BREAKROOM	ALL					
	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 - Cooling: Ta	ble C403.3.2(2) - Unitary and Applied Heat Pumps					
	Proposed Low OSA Temp Efficiency:		LTH Units: COP				
	WSEC Equip Efficiency Reference Table - Heating: Ta	ble C403.3.2(2) - Unitary and Applied Heat Pumps					

Single Zone Equipment Category - Condensing Unit

Equipment Summary Information		
System/Equip ID	Quantity of Items	
CU-3		

Air System	Air Systems & Equipment - Cooling										
System/ Equip ID	Cooling System/Equip Type	Specific Type	Cooling Capacity per item (Btu/h)	AEC Efficiency Multiplier	Econo Exception Multiplier (FL & PL)		Proposed Cooling Efficiency		Proposed Part Load Efficiency	PL Units	Efficiency Compliance Verification
CU-3	Condensing unit, air cooled		312,000	1.15		0	12.2	EER	13.6	IEER	COMPLIES

Equipment Details	Equipment Details									
System/Equip ID	Area(s) Served	Location In Project Documents - Plan/Detail #								
CU-3	OFFICE	ALL								
System/Equip ID for a single or multiple items?: Single item										
WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(1)A - Unitary Air Conditioners & Condensing Units										

