

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	Project Title	Centeris Data Center Expansion 2023 - 2018 WSEC	For Building Department Use: City of Puyallup Building ACCEPTED jMontgomery 04/19/2024 10:00:38 AM  	Date: Feb 22, 2024
	Project Address	1023 39th Avenue SE Puyallup, WA 98374		
	Applicant Name	Paul Greenwalt		
	Applicant Phone	425-628-6126		
	Applicant Email	pgreenwalt@woodharbinger.com		
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com				

General Occupancy	All Commercial		General Building Use Type	Technology, Data Center		Building Cond. Floor Area	56,000
General Project Types	Alteration	New Building or Addition Mechanical Scope	Alteration Mechanical Scope	Central Plant Systems	Project Cond. Floor Area	5,000	
					Floors Above Grade	3	
					Compliance Method	Compliance Method 1 - General	
Mechanical Project Description	Addition of water cooled chiller and cooling tower, pumps, and filtration equipment to provide cooling for added data center capacity.						

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
	Alteration	Central Plant Systems	Yes	NA	NA	COMPLIES
Additional Efficiency Credits Included (AEC)						
Does building include occupancy classifications requiring DOAS?	No		Does project include DOAS equipment?			{{mec_doas_equipment}}
Based on project scope do TSPR requirements apply?	No		Do all systems comply with Appendix D standard reference design or qualify for an exception to TSPR?			No

Scope & Space Conditioning	ALTERATION - CENTRAL PLANT SYSTEMS	Compliance Verification	COMPLIES
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Chilled Water Plant

Equipment Efficiency Information

Equipment Type	Equipment ID	Cooling Capacity (Tons)	Efficiency Path	AEC Efficiency Multiplier	Econo Exception Multiplier	Econo Exception Multiplier Type (PL/Both)	Combined Efficiency Multiplier (AEC & Econo)	Proposed Full Load Efficiency	FL Units	Proposed IPLV Efficiency	PL Units	Efficiency Compliance Verification
Chiller, water cooled												
Centrifugal	CH-3	575	Path A	1	1.0	Both	1	0.343	575	0.211	kW/ton	COMPLIES

Equipment Details

Equipment Type	Equipment ID	Cooling Load Served	Location in Documents - Plan/Detail #	
Chiller, water cooled				
Centrifugal	CH-3	Process cooling only	M-0.02, M-1.01, M-1.03	
	Cooling Load Served: Process cooling only			Serves non-standard temp applications (exempt)?: No
	Air-side economizer exception applied?: None applied			Proposed chiller efficiencies per AHRI conditions? (WC-Centrifugal): Yes
	WSEC Equipment Efficiency Reference Table: Table C403.3.2(7) Water Chilling Packages			

Heat Rejection Plant

Equipment Efficiency Information

Equipment Type	Equipment ID	Cooling Capacity (Tons)	Water Flow Rate at CTI Conditions (gpm)	Heat Rejection at CTI Conditions (MBH)	Total Fan Motor Hp	Proposed Performance (Efficiency)	Units	Efficiency Compliance Verification
Open circuit cooling tower								
Centrifugal fan	CT-3	568	1,725.0					COMPLIES

Equipment Details

Equipment Type	Equipment ID	Heating Rejection Load Served	Location in Documents - Plan/Detail #	
Open circuit cooling tower				
Centrifugal fan	CT-3	Chiller	M-0.02, M-1.01, M-1.02, M-1.04	
	Heat Rejection Load Served: Chiller			Equipment sized for water-side economizer?: No
	Supports an air-side economizer?: None applied			WSEC Equipment Efficiency Reference Table: Table C403.3.2(8) Heat Rejection Equipment

**FULL SIZED LEDGIBLE REPORT
IS REQUIRED TO BE PROVIDED
BY THE PERMITTEE ON SITE
FOR ALL INSPECTIONS**