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COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Full-Sized legible color report is required to be provided by the Permittee on site for all Inspections

PRMH20241062

City of Puyallup Development & Permitting Services /ISSUED PERMIT Building Planning Frequencing Public Works

Project Information

Energy Code: 2021 IECC

Project Title: Tractor Supply No. 1886
Location: Puyallup, Washington

Climate Zone: 4c

Project Type: Alteration

Construction Site: 621 River Rd.

Puyallup, Washington 98371

Owner/Agent:

Tractor Supply No. 1886

621 River Rd,

Puyallup, Washington 98371

253-845-0397

Designer/Contractor:

Bernard Adebayo-Ige Proscap Engineering and Energy

Group

1390 W. 6th Street, Suite 108

Corona, California 92882

951-283-7085 bernard@p2eg.com

Mechanical Systems List QuantitySystem Type & Description

1 RTU-1 (Single Zone):

Heating: 1 each - Central Furnace, Gas, Capacity = 211 kBtu/h

Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE

Cooling: 1 each - Single Package DX Unit, Capacity = 184 kBtu/h, Air-Cooled Condenser, Air Economizer

Proposed Efficiency = 12.00 EER, Required Efficiency = 10.80 EER

Proposed Part Load Efficiency = 15.00 IEER, Required Part Load Efficiency = 14.00 IEER

Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans

FAN 1 Supply, Single-Zone VAV, 6000 CFM, 3.0 motor nameplate hp, 85.00 fan energy index

1 RTU-2 (Single Zone):

Heating: 1 each - Central Furnace, Gas, Capacity = 211 kBtu/h

Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE

Cooling: 1 each - Single Package DX Unit, Capacity = 184 kBtu/h, Air-Cooled Condenser, Air Economizer

Proposed Efficiency = 12.00 EER, Required Efficiency = 10.80 EER

Proposed Part Load Efficiency = 15.00 IEER, Required Part Load Efficiency = 14.00 IEER Fan System: FAN SYSTEM 2 -- Compliance (Motor nameplate HP and fan efficiency method): Passes

Fans

FAN 2 Supply, Single-Zone VAV, 6000 CFM, 3.0 motor nameplate hp, 85.00 fan energy index

1 RTU-3 (Single Zone):

Heating: 1 each - Central Furnace, Gas, Capacity = 211 kBtu/h

Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE

Cooling: 1 each - Single Package DX Unit, Capacity = 184 kBtu/h, Air-Cooled Condenser, Air Economizer

Proposed Efficiency = 12.00 EER, Required Efficiency = 10.80 EER

Proposed Part Load Efficiency = 15.00 IEER, Required Part Load Efficiency = 14.00 IEER

Fan System: FAN SYSTEM 3 -- Compliance (Motor nameplate HP and fan efficiency method): Passes

Fans:

FAN 3 Supply, Single-Zone VAV, 6000 CFM, 3.0 motor nameplate hp, 85.00 fan energy index

1 AC-7 (Single Zone):

Cooling: 1 each - Split System, Capacity = 90 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 11.20 EER, Required Efficiency = 11.20 EER

Proposed Part Load Efficiency = 14.80 IEER, Required Part Load Efficiency = 14.80 IEER

Fan System: FAN SYSTEM 7 -- Compliance (Motor nameplate HP and fan efficiency method): Passes

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Quantity System Type & Description

Fans:

FAN 7 Supply, Single-Zone VAV, 3000 CFM, 2.0 motor nameplate hp, 85.00 fan energy index

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Bernard Adebayo-Ige - P.E		ADERATOR WASHINGTON	6/24/2024
Name - Title	Signature	S7908 STORY	Date

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COMcheck Software Version COMcheckWeb Inspection Checklist

Energy Code: 2021 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical and service water heating systems and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks. Hot water system sized per manufacturer's sizing guide.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
,	protection systems have sensors and controls configured to limit service for payement temperature above 50F and	□Does Not	Exception: Requirement does not apply.

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Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6] ³	to pipe length and volume	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.

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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41] ³	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	\square Does Not	Requirement will be met.
		□Not Observable □Not Applicable	
C403.8.4 [ME142] ²		□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.8.6 [ME143] ²	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.9 [ME144] ²	Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.3 [ME55] ²	HVAC equipment efficiency verified.	□Complies □Does Not □Not Observable □Not Applicable	See the Mechanical Systems list for values.
C403.5.5 [ME113] ²	Fault detection and diagnostics installed with air-cooled unitary DX units or VRF units having economizers.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.2.2 [ME59] ¹	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.7.1 [ME59] ¹	Demand control ventilation provided for spaces >500 ft2 and >15 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.7.2 [ME115] ³	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C403.7.6 [ME141] ³	Group Ř-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.7.4 [ME57] ¹	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 3 Low Impact (Tier 3) 2 Medium Impact (Tier 2)

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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.7.5 [ME116] ³	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C403.5, C403.5.1, C403.5.2 [ME62] ¹	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.5.3. 3 [ME124] ¹	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.5.3.3 for applicable device types and climate zones.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.5.3. 4 [ME125] ¹	System capable of relieving excess outdoor air during air economizer operation to prevent over pressurizing the building. The relief air outlet located to avoid recirculation into the building.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.5.3. 5 [ME126] ¹	Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.7.7 for details.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.4.1. 4 [ME63] ²	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.3.3 [ME35] ¹	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C408.2.2. 1 [ME53] ³	Air outlets and zone terminal devices have means for air balancing.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
, C403.11.3 .1, C403.11.3	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.11.3.1 and refrigeration compressor systems that comply with C403.11.3.2	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.7 [EL26] ²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of	□Complies □Does Not □Not Observable	Requirement will be met.
	Table C405.6.	☐Not Applicable	
C405.8 [EL27] ²	Electric motors meet the minimum efficiency requirements of Tables	\square Complies \square Does Not	Requirement will be met.
	C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	□Not Observable □Not Applicable	
	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C405.10 [EL29] ²	Total voltage drop across the combination of feeders and branch	□Complies □Does Not	Requirement will be met.
	circuits <= 5%.	□Not Observable □Not Applicable	
C405.1.1 [EL30] ²	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or	□Complies □Does Not	Exception: Requirement does not apply.
	luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	□Not Observable □Not Applicable	
C405.11.1	50% of 15/20 amp receptacles installed in enclosed offices,	□Complies □Does Not	Exception: Requirement does not apply.
[EL31] ²	conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	□Not Observable □Not Applicable	

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5. 3 [FI8] ³	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.3.1 [FI27] ³	loads.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.4.1 [FI47] ³		□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.4.1. 2 [FI38] ³	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.1. 3 [FI20] ³	Temperature controls have setpoint	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.4.2 [FI39] ³	controls using automatic time clock or programmable control system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.2. 1, C403.4.2. 2 [FI40] ³		□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.4.2. 3 [FI41] ³	Systems include optimum start controls.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C408.1.1 [FI57] ¹		□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C408.2.1 [FI28] ¹	Commissioning plan developed by	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C408.2.3. 1 [FI31] ¹		□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.3.	HVAC and service water heating control systems have been tested to	\square Complies \square Does Not	Requirement will be met.
[FI10] ¹	ensure proper operation, calibration and adjustment of controls.	□Not Observable □Not Applicable	
C408.2.3.	Economizers have been tested to ensure proper operation.	\square Complies \square Does Not	Requirement will be met.
[FI32] ¹		□Not Observable □Not Applicable	
C408.2.4 [FI29] ¹		□Complies □Does Not	Requirement will be met.
		□Not Observable □Not Applicable	
C408.2.5 [FI7] ³	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	□Complies □Does Not	Requirement will be met.
		□Not Observable □Not Applicable	
C408.2.5.	An air and/or hydronic system balancing report is provided for HVAC	\square Complies \square Does Not	Requirement will be met.
[FI43] ¹	systems.	□Not Observable □Not Applicable	
C408.2.5.	Final commissioning report due to building owner within 90 days of	□Complies □Does Not	Requirement will be met.
[FI30] ¹	receipt of certificate of occupancy.	□Not Observable □Not Applicable	

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