COMcheck Software Version 4.1.1.0

Mechanical Compliance Certificate

Project Information

Energy Code: 90.1 (2007) Standard
Project Title: My Salon Suites - Murfreesboro
Location: Murfreesboro, Tennessee
Climate Zone: 4a
Project Type: Alteration

Construction Site:

Owner/Agent:
My Salon Suites
Murfreesboro, TN

Designer/Contractor:
KLH Engineers
Fort Thomas, KY

Mechanical Systems List

Quantity System Type & Description

1 RTU-1
Heating: 1 each - Central Furnace, Gas, Capacity = 194 kBtuh
Proposed Efficiency = 82.00% Et; Required Efficiency: 80.00 % Et per 78% AFUE;
Cooling: 1 each - Single Package DX Unit, Capacity = 48 kBtuh, Air-Cooled Condenser
Proposed Efficiency = 14.00 SEER; Required Efficiency: 13.00 SEER
Fan System: FAN SYSTEM 1 - Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 1 Supply, Constant Volume, 1600 CFM, 1.5 motor nameplate hp

SYSTEM VERIFICATION REQUIRED.

1 RTU-2
Heating: 1 each - Central Furnace, Gas, Capacity = 120 kBtuh
Proposed Efficiency = 82.00% Et; Required Efficiency: 80.00 % Et per 78% AFUE;
Cooling: 1 each - Single Package DX Unit, Capacity = 48 kBtuh, Air-Cooled Condenser
Proposed Efficiency = 14.00 SEER; Required Efficiency: 13.00 SEER
Fan System: FAN SYSTEM 2 - Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 2 Supply, Constant Volume, 1600 CFM, 1.5 motor nameplate hp

SYSTEM VERIFICATION REQUIRED.

1 RTU-3
Heating: 1 each - Central Furnace, Gas, Capacity = 120 kBtuh
Proposed Efficiency = 82.00% Et; Required Efficiency: 80.00 % Et per 78% AFUE;
Cooling: 1 each - Single Package DX Unit, Capacity = 48 kBtuh, Air-Cooled Condenser
Proposed Efficiency = 14.00 SEER; Required Efficiency: 13.00 SEER
Fan System: FAN SYSTEM 3 - Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 3 Supply, Single-Zone VAV, 2000 CFM, 3.0 motor nameplate hp

SYSTEM VERIFICATION REQUIRED.

1 RTU-4
Heating: 1 each - Central Furnace, Gas, Capacity = 115 kBtuh
Proposed Efficiency = 82.00% Et; Required Efficiency: 80.00 % Et per 78% AFUE;
Cooling: 1 each - Single Package DX Unit, Capacity = 48 kBtuh, Air-Cooled Condenser
Proposed Efficiency = 14.00 SEER; Required Efficiency: 13.00 SEER
Fan System: FAN SYSTEM 4 - Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 4 Supply, Constant Volume, 1600 CFM, 2.0 motor nameplate hp

SYSTEM VERIFICATION REQUIRED.

1 RTU-5
Heating: 1 each - Central Furnace, Gas, Capacity = 79 kBtuh
Proposed Efficiency = 82.00% Et; Required Efficiency: 80.00 % Et per 78% AFUE;
Cooling: 1 each - Single Package DX Unit, Capacity = 72 kBtuh, Air-Cooled Condenser
Proposed Efficiency = 13.00 SEER; Required Efficiency: 11.00 SEER
Fan System: FAN SYSTEM 5 - Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 5 Supply, Single-Zone VAV, 2200 CFM, 3.0 motor nameplate hp

SYSTEM VERIFICATION REQUIRED.

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alterations 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 90.1 (2007) Standard requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Robert A Lonneman, P.E.
Name - Title Signature Date

COMcheck Software Version 4.1.1.0

Inspection Checklist

Energy Code: 90.1 (2007) Standard

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 #	Plans Review	Complies?	Comments/Assumptions
6.7.2.3 (M629)	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.7.2.3, 6.4.1 (M630)	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's rating guide.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.7.2.3 (M631)	Detailed instructions for HVAC systems commissioning included on the plans or specifications for projects >=50,000 ft2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

Section #	Mechanical Equipment Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.8.1.1, 6.8.1.2, 6.8.1.3 (M632)	HVAC equipment efficiency verified. Note AHRI/CA HVAC equipment labeled as meeting requirement	Efficiency = _____	Efficiency = _____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	See the Mechanical Systems list for values.
6.4.3.4.1 (M633)	Stair and elevator shaft vents have motorized dampers that automatically close.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.3.4.2, 6.4.3.4.3, 6.4.3.4.4 (M634)	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met
6.4.3.4.5 (M635)	Ventilation fans ≥0.75 hp have automatic controls to shut off fan when not required.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.3 (M666)	Demand control ventilation provided for spaces >500 ft2 and >=25 people/1000 ft2 occupant density and served by systems with one or more of the following: economizer, motorized outside air damper, controls, or design airflow >3,000 cfm.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Systems where the supply airflow rate minus any makeup or outgoing transfer air requirement is less than 375% cfm
6.4.4.1.3 (M637)	Insulation exposed to weather protected from damage. Insulation outside of the conditioned space and associated with cooling systems is vapor retarder.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met
6.4.4.2.1 (M638)	HVAC ducts and plenums insulated.	R_____	R_____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met
6.4.4.1.3 (M639)	HVAC piping insulation thickness.	____ in	____ in	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Piping within terminal equipment
6.4.4.2.2 (M640)	Ducts and plenums sealed based on static pressure and location.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met
6.4.4.2.2 (M641)	Ductwork operating >3 in. water column requires air leakage sealing.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.4.2.2 (M642)	Ductwork operating >3 in. water column requires air leakage sealing.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.4.2.2 (M643)	Ductwork operating >3 in. water column requires air leakage sealing.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

[ ] High Impact (Tier 1) [X] Medium Impact (Tier 2) [ ] Low Impact (Tier 3)

Section #	Mechanical Equipment Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.8.1.4 (M644)	Hot gas bypass limited to: <=240 kBtuh - 50% >240 kBtuh - 25%			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.5.6 (M645)	Hot gas bypass limited to: <=240 kBtuh - 50% >240 kBtuh - 25%			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.5.6 (M646)	Hot gas bypass limited to: <=240 kBtuh - 50% >240 kBtuh - 25%			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

Section #	Plumbing / Pool Inspection	Complies?	Comments/Assumptions
6.5.4.8 (M647)	Pool cover for heated pools.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

Section #	Mechanical Equipment Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.3.9 (M648)	Heat traps for storage water heaters and boilers.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M649)	Automatic time switch or occupancy sensor controls for HVAC systems.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M650)	Automatic time switch or occupancy sensor controls for lighting systems.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M651)	Automatic time switch or occupancy sensor controls for receptacles.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M652)	Automatic time switch or occupancy sensor controls for exterior lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M653)	Automatic time switch or occupancy sensor controls for signage.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M654)	Automatic time switch or occupancy sensor controls for display lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M655)	Automatic time switch or occupancy sensor controls for decorative lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M656)	Automatic time switch or occupancy sensor controls for task lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M657)	Automatic time switch or occupancy sensor controls for case lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M658)	Automatic time switch or occupancy sensor controls for hotel/motel guest room lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M659)	Automatic time switch or occupancy sensor controls for dwelling unit lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M660)	Automatic time switch or occupancy sensor controls for other lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

Section #	Mechanical Equipment Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.3.4.1 (M661)	Stair and elevator shaft vents have motorized dampers that automatically close.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.3.4.2, 6.4.3.4.3, 6.4.3.4.4 (M662)	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met
6.4.3.4.5 (M663)	Ventilation fans ≥0.75 hp have automatic controls to shut off fan when not required.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.3 (M664)	Demand control ventilation provided for spaces >500 ft2 and >=25 people/1000 ft2 occupant density and served by systems with one or more of the following: economizer, motorized outside air damper, controls, or design airflow >3,000 cfm.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Systems where the supply airflow rate minus any makeup or outgoing transfer air requirement is less than 375% cfm
6.4.4.1.3 (M665)	Insulation exposed to weather protected from damage. Insulation outside of the conditioned space and associated with cooling systems is vapor retarder.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met
6.4.4.2.1 (M666)	HVAC ducts and plenums insulated.	R_____	R_____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met
6.4.4.1.3 (M667)	HVAC piping insulation thickness.	____ in	____ in	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Piping within terminal equipment
6.4.4.2.2 (M668)	Ducts and plenums sealed based on static pressure and location.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met
6.4.4.2.2 (M669)	Ductwork operating >3 in. water column requires air leakage sealing.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.4.2.2 (M670)	Ductwork operating >3 in. water column requires air leakage sealing.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.4.2.2 (M671)	Ductwork operating >3 in. water column requires air leakage sealing.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.2.2 (M672)	Dehumidification controls provided to prevent reheating, recooling, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.5.4.3 (M673)	HVAC pumping systems >10 hp designed for variable fluid flow.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Systems with three or fewer control valves.
6.5.6.1 (M674)	Exhaust air energy recovery on systems >=5,500 cfm and 70% or design supply air.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.7.2 (M675)	Kitchen hoods >5,000 cfm have makeup air >=50% of exhaust air volume.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.7.2.3 (M676)	Fume hoods exhaust systems >=15,000 cfm have VAV hood exhaust and supply systems. direct make-up air or heat recovery.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.8.1 (M677)	Unenclosed spaces that are heated use only radiant heat.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.9 (M678)	Hot gas bypass limited to: <=240 kBtuh - 50% >240 kBtuh - 25%			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.5.9 (M679)	Hot gas bypass limited to: <=240 kBtuh - 50% >240 kBtuh - 25%			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.5.9 (M680)	Hot gas bypass limited to: <=240 kBtuh - 50% >240 kBtuh - 25%			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

[ ] High Impact (Tier 1) [X] Medium Impact (Tier 2) [ ] Low Impact (Tier 3)

Section #	Mechanical Equipment Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.8.1.4 (M681)	Hot gas bypass limited to: <=240 kBtuh - 50% >240 kBtuh - 25%			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.5.6 (M682)	Hot gas bypass limited to: <=240 kBtuh - 50% >240 kBtuh - 25%			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.5.6 (M683)	Hot gas bypass limited to: <=240 kBtuh - 50% >240 kBtuh - 25%			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

Section #	Plumbing / Pool Inspection	Complies?	Comments/Assumptions
6.5.4.8 (M684)	Pool cover for heated pools.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

Section #	Mechanical Equipment Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.3.9 (M685)	Heat traps for storage water heaters and boilers.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M686)	Automatic time switch or occupancy sensor controls for HVAC systems.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M687)	Automatic time switch or occupancy sensor controls for lighting systems.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M688)	Automatic time switch or occupancy sensor controls for receptacles.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M689)	Automatic time switch or occupancy sensor controls for exterior lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M690)	Automatic time switch or occupancy sensor controls for signage.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M691)	Automatic time switch or occupancy sensor controls for display lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M692)	Automatic time switch or occupancy sensor controls for decorative lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M693)	Automatic time switch or occupancy sensor controls for task lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M694)	Automatic time switch or occupancy sensor controls for case lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M695)	Automatic time switch or occupancy sensor controls for hotel/motel guest room lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M696)	Automatic time switch or occupancy sensor controls for dwelling unit lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M697)	Automatic time switch or occupancy sensor controls for other lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

Section #	Plumbing / Pool Inspection	Complies?	Comments/Assumptions
6.4.3.4.1 (M698)	Stair and elevator shaft vents have motorized dampers that automatically close.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

Section #	Mechanical Equipment Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.3.4.2, 6.4.3.4.3, 6.4.3.4.4 (M699)	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met
6.4.3.4.5 (M700)	Ventilation fans ≥0.75 hp have automatic controls to shut off fan when not required.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.3 (M701)	Demand control ventilation provided for spaces >500 ft2 and >=25 people/1000 ft2 occupant density and served by systems with one or more of the following: economizer, motorized outside air damper, controls, or design airflow >3,000 cfm.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Systems where the supply airflow rate minus any makeup or outgoing transfer air requirement is less than 375% cfm
6.4.4.1.3 (M702)	Insulation exposed to weather protected from damage. Insulation outside of the conditioned space and associated with cooling systems is vapor retarder.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met
6.4.4.2.1 (M703)	HVAC ducts and plenums insulated.	R_____	R_____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met
6.4.4.1.3 (M704)	HVAC piping insulation thickness.	____ in	____ in	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Piping within terminal equipment
6.4.4.2.2 (M705)	Ducts and plenums sealed based on static pressure and location.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met
6.4.4.2.2 (M706)	Ductwork operating >3 in. water column requires air leakage sealing.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.4.2.2 (M707)	Ductwork operating >3 in. water column requires air leakage sealing.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.4.2.2 (M708)	Ductwork operating >3 in. water column requires air leakage sealing.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.2.2 (M709)	Dehumidification controls provided to prevent reheating, recooling, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.5.4.3 (M710)	HVAC pumping systems >10 hp designed for variable fluid flow.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Systems with three or fewer control valves.
6.5.6.1 (M711)	Exhaust air energy recovery on systems >=5,500 cfm and 70% or design supply air.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.7.2 (M712)	Kitchen hoods >5,000 cfm have makeup air >=50% of exhaust air volume.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.7.2.3 (M713)	Fume hoods exhaust systems >=15,000 cfm have VAV hood exhaust and supply systems. direct make-up air or heat recovery.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.8.1 (M714)	Unenclosed spaces that are heated use only radiant heat.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.9 (M715)	Hot gas bypass limited to: <=240 kBtuh - 50% >240 kBtuh - 25%			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.5.9 (M716)	Hot gas bypass limited to: <=240 kBtuh - 50% >240 kBtuh - 25%			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.5.9 (M717)	Hot gas bypass limited to: <=240 kBtuh - 50% >240 kBtuh - 25%			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

[ ] High Impact (Tier 1) [X] Medium Impact (Tier 2) [ ] Low Impact (Tier 3)

Section #	Plumbing / Pool Inspection	Complies?	Comments/Assumptions
6.5.4.8 (M718)	Pool cover for heated pools.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

Section #	Mechanical Equipment Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.3.9 (M719)	Heat traps for storage water heaters and boilers.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M720)	Automatic time switch or occupancy sensor controls for HVAC systems.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M721)	Automatic time switch or occupancy sensor controls for lighting systems.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M722)	Automatic time switch or occupancy sensor controls for receptacles.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M723)	Automatic time switch or occupancy sensor controls for exterior lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M724)	Automatic time switch or occupancy sensor controls for signage.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M725)	Automatic time switch or occupancy sensor controls for display lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M726)	Automatic time switch or occupancy sensor controls for decorative lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M727)	Automatic time switch or occupancy sensor controls for task lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M728)	Automatic time switch or occupancy sensor controls for case lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M729)	Automatic time switch or occupancy sensor controls for hotel/motel guest room lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M730)	Automatic time switch or occupancy sensor controls for dwelling unit lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M731)	Automatic time switch or occupancy sensor controls for other lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

Section #	Plumbing / Pool Inspection	Complies?	Comments/Assumptions
6.4.3.4.1 (M732)	Stair and elevator shaft vents have motorized dampers that automatically close.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirements does not apply.

Additional Comments/Assumptions:

Section #	Mechanical Equipment Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.3.4.2, 6.4.3.4.3, 6.4.3.4.4 (M733)	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met
6.4.3.4.5 (M734)	Ventilation fans ≥0.75 hp have automatic controls to shut off fan when not required.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.3 (M735)	Demand control ventilation provided for spaces >500 ft2 and >=25 people/1000 ft2 occupant density and served by systems with one or more of the following: economizer, motorized outside air damper, controls, or design airflow >3,000 cfm.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Systems where the supply airflow rate minus any makeup or outgoing transfer air requirement is less than 375% cfm
6.4.4.1.3 (M736)	Insulation exposed to weather protected from damage. Insulation outside of the conditioned space and associated with cooling systems is vapor retarder.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met
6.4.4.2.1 (M737)	HVAC ducts and plenums insulated.	R_____	R_____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met
6.4.4.1.3 (M738)	HVAC piping insulation thickness.	____ in	____ in	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Piping within terminal equipment
6.4.4.2.2 (M739)	Ducts and plenums sealed based on static pressure and location.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met
6.4.4.2.2 (M740)	Ductwork operating >3 in. water column requires air leakage sealing.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.4.2.2 (M741)	Ductwork operating >3 in. water column requires air leakage sealing.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.4.2.2 (M742)	Ductwork operating >3 in. water column requires air leakage sealing.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.2.2 (M743)	Dehumidification controls provided to prevent reheating, recooling, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.5.4.3 (M744)	HVAC pumping systems >10 hp designed for variable fluid flow.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Systems with three or fewer control valves.
6.5.6.1 (M745)	Exhaust air energy recovery on systems >=5,500 cfm and 70% or design supply air.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.7.2 (M746)	Kitchen hoods >5,000 cfm have makeup air >=50% of exhaust air volume.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.7.2.3 (M747)	Fume hoods exhaust systems >=15,000 cfm have VAV hood exhaust and supply systems. direct make-up air or heat recovery.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.8.1 (M748)	Unenclosed spaces that are heated use only radiant heat.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.9 (M749)	Hot gas bypass limited to: <=240 kBtuh - 50% >240 kBtuh - 25%			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.5.9 (M750)	Hot gas bypass limited to: <=240 kBtuh - 50% >240 kBtuh - 25%			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.5.9 (M751)	Hot gas bypass limited to: <=240 kBtuh - 50% >240 kBtuh - 25%			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

[ ] High Impact (Tier 1) [X] Medium Impact (Tier 2) [ ] Low Impact (Tier 3)

Section #	Plumbing / Pool Inspection	Complies?	Comments/Assumptions
6.5.4.8 (M752)	Pool cover for heated pools.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

Section #	Mechanical Equipment Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.3.9 (M753)	Heat traps for storage water heaters and boilers.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M754)	Automatic time switch or occupancy sensor controls for HVAC systems.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M755)	Automatic time switch or occupancy sensor controls for lighting systems.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.10 (M756)	Automatic time switch or occupancy sensor controls for receptacles.			☐Complies ☐Does Not