

System Verification Checklist

[Project Name]

System: **Boiler**
Building:

Tag: **B-__**
Location:

Service: **Heating Water System**

| <i>Installation Check/Reference</i> | <i>Provided</i> | <i>Initials</i> | <i>Date</i> | <i>IC</i> |
|--|-----------------|-----------------|-------------|-----------|
| Manufacturer: | | | | MC |
| Model Number: | | | | MC |
| General Checks | | | | |
| Install in Accordance with ASME Boiler and Pressure Vessel Code, Spec. 235216-3.2 | | | | MC |
| Service Access Per Code-Required Clearances, Spec. 230500-3.2.A | | | | MC |
| Unit Identification Affixed, Spec. 230553-2.2, 3.3 | | | | MC |
| Installed On 4" Housekeeping Pad, M0.2, M4.2, Spec. 235216-3.2.C | | | | MC |
| Interlock Combustion Air Damper With Burner Control, M0.2 | | | | MC |
| Boiler Piping | | | | |
| Unions Installed (Return/Supply); Located Min. of 6" From Boiler Fittings, M5.2 | | | | MC |
| Rising Steam Gate Valves Installed (Return/Supply), M5.2 | | | | MC |
| Thermometer Installed (Supply), M5.2 | | | | MC |
| Boiler Drain Connection(s) with Drain Valve, M5.2, Spec. 235216-2.3.G, 3.3.C | | | | MC |
| Safety Relief Valve Set at 50 PSI (Return); Terminated to Floor Drain, M0.2, M4.2, M5.2, Spec. 235216-2.3.C, 3.3.F, 232113-3.2.D | | | | MC |
| Pressure Gages Installed, M5.2, Spec. 235216-2.3.F | | | | MC |
| Manual Air Vent Installed, Spec. 235216-2.3.E | | | | MC |
| Boiler Venting with Condensate Drain Trap, M5.2, Spec. 235216-2.8.A, 3.3.G | | | | MC |
| Combustion Venting Installed, M5.2, Spec. 235216-2.8.B | | | | MC |
| Gas Piping | | | | |
| FM Gas Train and Assembly Provided for Unit Operation, M0.2, Spec. 235216-2.2.E, 3.3.E | | | | MC |
| Connections Complete for Gas Shutoff Valve, Dirt Leg and Union, P1.1/Note P105 | | | | MC |
| Boiler Circulation Pump (BP-__) | | | | |
| Unit Identification Affixed, Spec. 230553-2.2, 3.3 | | | | MC |

Remarks: IC-Installing Contractor; SM-Sheet Metal Contractor; MC-Mechanical Contractor;

EC-Electrical Contractor; CC-Controls Contractor

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|--|-----------------|-----------------|-------------|-----------|
| Boiler Circulation Pump (BP-_) [continued] | | | | |
| Inline Pump Installed, M0.2, Spec. 235216-2.3.H, 2.4.H | | | | MC |
| Ball Valve Installed, M5.2 | | | | MC |
| Strainer with Blowdown Valve Installed, M5.2 | | | | MC |
| Pressure Gage Installed, M5.2 | | | | MC |
| Thermometer Installed, M5.2 | | | | MC |
| Electrical | | | | |
| Unit Wired to Panel LV1E/Circuit 1; Boiler Pump Is Powered by Boiler Circuit, E2.1 (Note E63) | | | | EC |
| 20A/1P Circuit Breaker Per Panel Schedule, E4.3 | | | | EC |
| Verify Scheduled Wiring Is Used For Equipment As Scheduled, E4.2 | | | | EC |
| Single Power Field Connection(s), Spec. 235216-2.7.B | | | | EC |
| Grounding For Components and Unit, Spec. 260526 | | | | EC |
| Wiring Is Numbered and Color-Coded to Match Unit's Wiring Diagram, Spec. 235216-2.7.B | | | | EC |
| Controls | | | | |
| Boiler Unitary Controller, Spec. 230993-3.1 | | | | CC |
| Aquastat Controller(s), Spec. 235216-2.3.B | | | | CC |
| High Limit and Manual Reset Cut Off Controls, M0.2, Spec. 235216-2.3.B | | | | CC |
| Outlet Water Temperature Sensor, Spec. 235216-2.3.B | | | | CC |
| Return Water Temperature Sensor, Spec. 235216-2.3.B | | | | CC |
| Boiler Emergency Shutoff Switch, E2.1/Note E61 | | | | CC |
| Flue Temperature Sensor, Spec. 235216-2.3.B | | | | CC |
| Outdoor Air Sensor, Spec. 235216-2.3.B | | | | CC |
| Safety Controls, Spec. 235216-2.4.B | | | | CC |
| Connect Control Devices To Perform Functions Indicated and Required by Sequence (DDC Programmed), Spec. 230993-3.1.C | | | | CC |
| Unit Interlocked To Frontend Graphics As Specified/Indicated, Spec. 230993-3.17.B | | | | CC |
| DDC Control Wiring Installed/Complete As Specified, Spec. 230900 | | | | CC |

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