

## System Verification Checklist

**[Project Name]**

 System: **Cooling Tower**  
 Location:

Tag: CT-\_\_

 Service: **Condenser Water System**  
 Building:

| <i>Installation Check/Reference</i>   | <i>Provided</i> | <i>Initials</i> | <i>Date</i> | <i>IC</i> |
|---|-----------------|-----------------|-------------|-----------|
| <b>Manufacturer:</b>  |                 |                 |             | <b>MC</b> |
| <b>Model Number:</b>  |                 |                 |             | <b>MC</b> |
| <b>Cooling Tower</b>  |                 |                 |             |           |
| Installed Per Manufacturer's Instructions, M3.1, Spec. 236500-3.1.B                   |                 |                 |             | <b>MC</b> |
| Identification Tag Installed, Spec. 220553-3.2  |                 |                 |             | <b>MC</b> |
| Platforms and Handrails Provided for Service Access, Spec. 236500-2.2.G               |                 |                 |             | <b>MC</b> |
| Mounted on Support I-Beams and Support, M3.1, Spec. 236500-3.1.A                      |                 |                 |             | <b>MC</b> |
| <b>Basins</b>   |                 |                 |             |           |
| Cold Water Basin Provided with Strainer and Anti-Vortexing Device, Spec. 236500-2.2.B |                 |                 |             | <b>MC</b> |
| Basin Cleaned and Washed  |                 |                 |             | <b>MC</b> |
| Hot Water Basin Provided With Metering Devices, Spec. 236500-2.2.B                    |                 |                 |             | <b>MC</b> |
| Float Switches Installed, M3.1  |                 |                 |             | <b>MC</b> |
| Make-up Line Extended to Cooling Tower Sump   |                 |                 |             | <b>MC</b> |
| <b>Accessories</b>  |                 |                 |             |           |
| Air Inlet Debris Screen, Spec. 236500-2.2.J   |                 |                 |             | <b>MC</b> |
| Air Inlet Louvers Provided, Spec. 236500-2.2.E  |                 |                 |             | <b>MC</b> |
| Fan Deck Access Ladder, Spec. 236500-2.2.G  |                 |                 |             | <b>MC</b> |
| <b>Cooling Tower Sump Piping</b>  |                 |                 |             |           |
| Connect Water-Level Control With Shutoff Valves and Union, M3.2                       |                 |                 |             | <b>MC</b> |
| Solenoid Control Valve Installed, M3.2  |                 |                 |             | <b>MC</b> |
| Backflow Preventer Installed, M3.2  |                 |                 |             | <b>MC</b> |
| Installed Water Meter, M3.2   |                 |                 |             | <b>MC</b> |
| Unit Provided with Remote Sump Drain, Spec. 236500-2.2.J                              |                 |                 |             | <b>MC</b> |
| Pressure Reducing Valve Installed, M3.2   |                 |                 |             | <b>MC</b> |
| <b>Make-Up Water/Fill Piping</b>  |                 |                 |             |           |
| Connect Water-Level Control With Shutoff Valves and Union, M3.2                       |                 |                 |             | <b>MC</b> |
| Check Valve Installed, M3.2   |                 |                 |             | <b>MC</b> |
| Backflow Preventer(s) Installed, M3.2   |                 |                 |             | <b>MC</b> |
| Installed Water Meter in Make-Up Line, M3.2   |                 |                 |             | <b>MC</b> |

**Remarks:** **IC**-Installing Contractor; **SM**-Sheet Metal Contractor; **MC**-Mechanical Contractor;  
**EC**-Electrical Contractor; **CC**-Controls Contractor

"This System Verification Checklist document represents FCG's standard test protocol, basic functional test, and FCG's best understanding of the designed sequence of operation. This document DOES NOT define design intent, supersede contract documents, or direct means and methods."

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|--|-----------------|-----------------|-------------|-----------|
| <b>Make-Up Water/Fill Piping (continued)</b>   |                 |                 |             |           |
| Pressure Reducing Valve(s) Installed, M3.2   |                 |                 |             | <b>MC</b> |
| <b>Electrical</b>  |                 |                 |             |           |
| Unit Wired to Panel ____/Circuit(s) ____   |                 |                 |             | <b>EC</b> |
| Grounding for Components and Unit, Spec. 260526                                      |                 |                 |             | <b>EC</b> |
| Provide With HOA Starter For Outdoor Mounting, M3.1, Spec. 236500-2.2.1              |                 |                 |             | <b>EC</b> |
| Fused Disconnect, M3.1, Spec. 236500-2.2.1   |                 |                 |             | <b>EC</b> |
| Vibration Cutoff Switch, M3.1  |                 |                 |             | <b>EC</b> |
| <b>Controls</b>  |                 |                 |             |           |
| DDC programming complete   |                 |                 |             | <b>CC</b> |
| Automatic Tower Isolation Control Valve  |                 |                 |             | <b>CC</b> |
| Modulating Condenser Bypass Control Valve  |                 |                 |             | <b>CC</b> |
| Setpoint Temperature Sensor Wells Located In Building Supply Loop Serving HP's, M3.3 |                 |                 |             | <b>CC</b> |
| Point-to-Point Checkout Complete, M3.3, Spec. 230900                                 |                 |                 |             | <b>CC</b> |

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|---------------|
| <b>Notes:</b> |
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