



Statement of Work

Cooling Start-up Service

Installation Service

Service

1.0 Executive Summary

Schneider Electric Critical Power and Cooling Service (CPCS) Start-Up Service is a key part of a complete deployment of Cooling equipment in Data Centers, Server Rooms and Wiring Closets.

This service provides the certified Schneider Electric CPCS service engineers needed to verify proper installation of the equipment, per Schneider Electric CPCS installation documentation, and energize and check the functionality of the Cooling product in all modes of operation. This service provides the customer with the assurance that the Cooling Solution has been started up according to Schneider Electric CPCS standards and specifications.

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2.0 Features & Benefits

Features	Benefits
Start-up Service Provided 5x8 Or 7x24 Scheduling	A flexible service program to meet customers varying business operations requirements.
Provide Qualified And Approved Service Personnel	Frees customer resources to concentrate on core business activities.
Installation Inspection	Verifies the installation and provides a report of any issues which may lead to equipment downtime or decreased system performance.
Factory Trained Technician	Provides assurance that the system start up and operation will be performed by qualified service personnel.
Train Customer Support Staff On Basic Operation Of The Equipment	Provides the customer with enhanced operation and maintenance Knowledge.
Upgrade From Standard Factory Warranty May Apply	With certain cooling products, the purchase of the Cooling Start-up Service may upgrade the factory warranty to include parts and labor during the factory warranty term. Contact you local Sales Representative for availability.

3.0 Details of Service – Pre Start-up

The specific activities of this service are listed below. For each item, Schneider Electric CPCS will perform the work described and create and maintain a project summary document that contains the key data and information. This document will be printed and will be provided to the customer.

Pre-Start up Inspection	
Activities	Description
System/Environmental & Service Requirements Inspection	Schneider Electric CPCS will check the Cooling Product installation to ensure There are no signs of damage and that the environment is suitable for operation and there will be sufficient clearance around the system for service.
Installation Check	Schneider Electric CPCS will confirm the Cooling Unit is properly grounded and electrical supply Is installed per specifications. Perform a thorough check of all field installed piping, isolation valves, customer controls and monitoring.

Start Up Service	
Activities	Description
Electrical Checks	Schneider Electric CPCS will verify proper rotation of blowers, compressors, condenser fans and pumps. Record voltages for main and control and record amperage draws for all components of the system supplied by Schneider Electric CPCS.
System Operation	Schneider Electric CPCS will measure and record Chilled Water temperature and flow rate to verify proper unit performance.
	Schneider Electric CPCS will record refrigeration circuit temperatures and pressures and verification of proper charge.
	Schneider Electric CPCS will ensure all modes of unit operation and function of internal components.
	Schneider Electric CPCS will verify operation of "OHE" (Out Door Heat Exchangers: Air Cooled Condensers/Dry Coolers & Pump Packages)
System Set-Up	Schneider Electric CPCS will set-up optimum set-points for Cooling/Heating/Humidification/Dehumidification.
	Schneider Electric CPCS Will configure the redundant group control if it applies and set-up the alarm thresholds based on customer recommendations or best practices.
	Schneider Electric CPCS will set-up the OHE (Outdoor Heat Exchanger) for proper operation based on equipment application.
Verify Ancillary Components	Schneider Electric CPCS will verify operation of factory supplied ancillary devices like Water Detection, Smoke Detection, and Condensate Pumps.
Equipment Training	Schneider Electric CPCS will train the customer/support staff on basic operation and control settings.
Documentation	Schneider Electric CPCS will submit the completed site form to the customer.

4.0 Assumptions

The successful performance of the tasks defined in this statement of work (SOW) is based on the following key assumptions, which are agreed to by Schneider Electric CPCS.

- The scheduled on site work time will be discussed and approved between Schneider Electric CPCS and the customer.
- Schneider Electric CPCS will provide the customer with authorized service personnel to start up the Cooling Equipment.
- Installation Checklist must be completed and returned to Schneider Electric CPCS prior to scheduling Start-up services.
- Start-up service is a requirement to qualify for extended compressor warranties and On-Site service entitlements.
- Customer needs to purchase one contract per unit.
- Unit must be installed and maintained in an environment that adheres to manufacturer specifications and recommendations.
- Schneider Electric CPCS will provide the customer with a Start-Up site form indicating that the Cooling Solution was properly energized and the functionality of the system was checked in all modes of operation to ensure compliance with all CPCS technical specifications.
- Non-standard products purchased through Schneider Electric CPCS will require a customized Statement of Work (SOW).

Activities and items **outside the scope** of Start-Up service:

- Rigging delivery, or placement of any Precision Cooling equipment, module, heat exchanger, or pump system.
- Providing main power or control wiring to the Cooling equipment, OHE and or pump package.
- Providing piping or insulation for Chilled Water, Refrigeration, Condenser loop, Condensate removal or Humidifier water supply.
- Air duct fabrication or connection to for purposes of air distribution.
- Providing refrigerant or additional oil for system charging.
- Building Management Systems (BMS), Modbus, BACNET, or other customer interface wiring.
- Installation of factory supplied ancillary devices; Transformers, Water Detectors, Smoke Detectors and or Fire stats, Remote temperature sensors used for unit control and Environmental Monitoring Units (EMU's) and their sensors.
- Providing or filling any cooling water loop with water, brine or glycol mixtures.
- Purging air or cleaning of external water strainers in the cooling water loop.
- Pressurized leak testing of field installed piping.
- Evacuation of refrigerant piping.
- Start-Up of third party components.
- Building Management System integration (Optional).
- Air or Water balancing or other specialized testing.
- Site Coordination Services or Project Management duties.
- Assembly of cooling equipment or integration with other equipment.

These activities can be integrated into a customized Statement of Work (SOW) at the customer's request. Please contact your certified CPCS sales representative for more details.

5.0 Scope of Responsibility

The items stated here are responsibilities of both CPCS and the customer.

5.1 SCHNEIDER ELECTRIC CPCS RESPONSIBILITIES

- Schedule certified engineers to perform service
- Manage and coordinate scheduling of Start-Up service
- Review installation confirm it was performed to manufacturer specifications
- Operate system in all modes of operation
- Perform basic operator training
- Identify and document open Schneider Electric CPCS and/or customer issues
- Provide a signed copy of the Schneider Electric CPCS Site Forms to the customer

5.2 CUSTOMER RESPONSIBILITIES

- Identify dates and times when the Start-Up service can be conducted
- Provide completed installation checklist validated by the installing contractor
- Provide network cable wiring to the customers BMS system and or interface wiring with the Precision Cooling equipment and those customer supplied interfaces
- Provide a named resource for scheduling of the service
- Provide a representative of the mechanical and electrical installation company to discuss any issues with the installation of the equipment and or obstacles preventing start-up of the equipment
- Notify Schneider Electric CPCS engineers of any security clearance requirements prior to arrival on site
- Provide a point of contact at the completion of service to sign off on completed work
- Provide a safe method of service access to all Precision Cooling equipment indoors or outdoors. Customer is responsible to provide any ladders, staging, roof hatches, or catwalks necessary for service requirements.
- Have the parties responsible for operation of the equipment present for basic operator Training

6.0 Project Work Details

The information stated here are the details of the project performed by Schneider Electric CPCS for the customer including the schedule, location and successful completion criteria.

6.1 SCHEDULE

Actual set dates will be discussed and approved between Schneider Electric CPCS and the customer.

6.2 LOCATION

The location of this Network AIR Precision Room Air Conditioning equipment service will be on-site. It will be discussed and approved by Schneider Electric CPCS and the customer.

6.3 COMPLETION CRITERIA

Schneider Electric CPCS is expected to have finished its written duties when any of the following occurs:

1. Schneider Electric CPCS completes all tasks described in Section 3.0 of this SOW.
2. This service and SOW are terminated for other reasons, within the Schneider Electric CPCS Customer Agreement.

7.0 Terms and Conditions

APC standard Terms and Conditions apply.

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