CALIFORNIA ENERGY COMMISSION CONDENSER RESET CONTROLS 2025-CEC-NRCA-MCH-17-A

Project Name and Address	Authority Having Jurisdiction
Name: Project Name	Enforcement Agency: Agency
Address: Project Address	Permit Number: Permit Number
City, Zip: City, Zip Code	Permit Application Date: Date

Building: Enter Value	Floor: Enter Value	Room: Ente	er Value	Control/tag: Value
Construction inspe	ection and functional test	ing comply	Date Subn	nitted to AHJ: Date

Intent:	Ensure that the condenser water supply temperature is automatically reset as
	indicated in the control sequence(s). Reference NRCC-MCH-E for nonresidential
	(including nonresidential spaces in high-rise multifamily) building permits or LMCC-
	MCH-E for nonresidential spaces in low-rise multifamily building permits or LMCC-
	PRF-E or NRCC-PRF-E for the performance path. Submit one Certificate of
	Acceptance for each system that must demonstrate compliance. References:
	§120.5(a)16, §140.4(k)4, §160.3(d)1P, §170.2(c)4Iiv, and NA7.5.16.

Table A: Construction Inspection

Prior to functional testing, verify and document all of the following:

		, verify and document all of the following.	Code
Step	Entry	Item	Reference
1	☐ Pass ☐ Fail	Confirm access to required documentation. Designs, plans, schematics, and schedules as approved by the authority having jurisdiction.	N/A
2	☐ Pass ☐ Fail	Required Documentation. Building documents, including: manufacturer specifications, calibration certificates, or tear sheets for the installed system as available.	N/A
3	☐ Pass ☐ Fail	Verify and document that the condenser water supply system, control system, and temperature control sequence, including condenser water supply high and low limits, are available and documented in the building documents.	NA7.5.16.1(a)
4	Pass Fail	Verify and document that the cooling tower fan motors are operational, and cooling tower fan speed controls (e.g., VSDs) are installed, operational, and connected to cooling tower fan motors as specified by Original Equipment Manufacturer (OEM) start-up manuals and sequence of operation.	NA7.5.16.1(b)
5	Pass Fail	Verify and document that the cooling tower fan control sequence, including tower design wet-bulb temperature and approach, is available and documented in the building documents.	NA7.5.16.1(c)

Step	Entry	Item	Code Reference
6	☐ Pass ☐ Fail	Verify and document that the following temperature sensors are installed as specified by the plans: outdoor air dry-bulb, outdoor air wetbulb, entering condenser water, and leaving chilled water. Note any discrepancies.	NA7.5.16.1(d)
7	Pass Fail	Verify and document that all ambient dry-bulb temperature, relative humidity, and pressure sensors used by controller are factory calibrated within 2% of a calibrated reference sensor.	NA7.5.16.1(e)
8	Pass Fail	Check "Pass" if construction inspection complies with all requirements. Check "Fail" if construction inspection does not comply with all requirements.	N/A

Table B-1: Temperature Documentation prior to Function

Table B-1. Temperature Documentation prior to Functional Testing			
Step	Entry	Item	Code Reference
1	Enter Value	Document the outdoor air dry-bulb temperature. (°F)	NA7.5.16.1(f)
2	Enter Value	Document the outdoor air wet-bulb temperature. (°F)	NA7.5.16.1(f)
3	Enter Value	Document the entering condenser water temperature. (°F)	NA7.5.16.1(f)
4	Enter Value	Document the leaving chilled water temperature. (°F)	NA7.5.16.1(f)
5	Pass Fail	Check if all temperature recordings from Steps 1 through 4 were documented successfully.	N/A

Table B-2: Functional Testing

Step	Entry	Functional Test	Code Reference
1.0	Pass Fail	If the actual control sequence differs significantly from that implied by the tests and/or has already been tested during the building commissioning process, attach a description of the control sequence, a description of the tests that were done to verify the system operates according to the sequence, the test results, and a plot of associated trend data. Skip to Step 19.	NA7.5.16.2(c)

Step	Entry	Functional Test	Code Reference
2.0	Pass Fail	Pre-Functional Test Requirement. The system cooling load must be sufficiently high to run the test. If necessary, artificially increase the evaporator load to perform the functional tests or wait until a time of stable chiller operation. If necessary, reverse the series of Steps from 6 through 10 and the series of Steps from 11 through 15 in the test based on atmospheric conditions and buildings loads.	NA7.5.16.2(a)
3.0	Pass Fail	Pre-Functional Test Requirement. If testing in cold ambient conditions, ensure that freeze protection controls are installed and functional to prevent equipment damage.	NA7.5.16.2(b)
4.0	WB, L, C, O	Identify the reset control parameter: WB - Outside air wet-bulb temperature L - Load signal from chiller C - Condenser water and chilled temperatures O - Other	NA7.5.16.2(d)
5.0	Pass Fail	Adjust the reset control parameter to decrease the condenser water supply temperature toward the lower supply temperature limit. Allow time for the system to stabilize. Maintain this status for Steps 6 through 9.	NA7.5.16.2 Step 1
6.0	Pass Fail	Verify and document that the condenser water supply temperature controls modulate as intended.	NA7.5.16.2 Step 1(a)
7.0	☐ Pass ☐ Fail	Verify and document that the actual condenser water supply temperature decreases to meet the new setpoint within ±2° Fahrenheit.	NA7.5.16.2 Step 1(b)
8.0	☐ Pass ☐ Fail	Verify and document that the cooling tower fan(s) stage properly and/or adjust speed accordingly to meet higher setpoint.	NA7.5.16.2 Step 1(c)
9.0	Pass Fail	Verify and document that the chiller load amperage decreases.	NA7.5.16.2 Step 1(d)
10.0	☐ Pass ☐ Fail	Adjust the reset control parameter to increase the condenser water supply temperature toward the upper supply temperature limit. Maintain this status for Steps 11 through 14.	NA7.5.16.2 Step 2
11.0	Pass Fail	Verify and document that the condenser water supply temperature controls modulate as intended.	NA7.5.16.2 Step 2(e)
12.0	☐ Pass ☐ Fail	Verify and document that the actual condenser water supply temperature increases to meet the new setpoint within ±2° Fahrenheit.	NA7.5.16.2 Step 2(f)
13.0	☐ Pass ☐ Fail	Verify and document that the cooling tower fan(s) stage properly and/or adjust speed accordingly to meet the lower setpoint.	NA7.5.16.2 Step 2(g)

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Step	Entry	Functional Test	Code Reference
14.0	Pass Fail	Verify and document that the chiller load amperage increases.	NA7.5.16.2 Step 2(h)
15.0	☐ Pass ☐ Fail	Restore reset control parameter to automatic control. Maintain this status for Steps 16 through 18.	NA7.5.16.2 Step 3
16.0	Pass Fail	Verify and document that the condenser water supply temperature controls modulate as intended.	NA7.5.16.2 Step 3(i)
17.0	Pass Fail	Verify and document that the actual condenser water supply temperature changes to meet the new setpoint.	NA7.5.16.2 Step 3(j)
18.0	Pass Fail	Verify and document that the cooling tower fan(s) and chiller(s) stage properly and/or adjust speed accordingly to return to normal operation and meet the setpoint.	NA7.5.16.2 Step 3(k)
19.0	Pass Fail	Verify that the Functional Testing is complete and passes ALL requirements.	N/A
		CONTRACTOR	

Declaration Statement	Signatory
Document Author	Name
I assert that this Certificate of Acceptance documentation is accurate and complete.	Company Name
	Author Signature
	Date Signed
Acceptance Test Technician	
I assert the following under penalty of perjury, under the laws of the State of California:	Name
The information provided on this Certificate of Acceptance is true and correct. I am the person who	Company Name
performed the acceptance verification reported on this Certificate of Acceptance (Field Technician). The	ATT No.: ATT Cert. No.
construction or installation identified on this Certificate of Acceptance complies with the applicable	Title
acceptance requirements indicated in the plans and specifications approved by the enforcement agency	Phone
and conforms to the applicable acceptance requirements and procedures specified in Reference	Signature
Nonresidential Appendix NA7. I have confirmed that the Certificate(s) of Installation for the construction or	Date Signed
installation identified on this Certificate of Acceptance has been completed and signed by the responsible	Date Signed
builder/installer and has been posted or made available with the building permit(s) issued for the building.	
Responsible Person	
I assert the following under penalty of perjury, under the laws of the State of California:	
I am the Field Technician, or the Field Technician is acting on my behalf as my employee or my agent and	
I have reviewed the information provided on this Certificate of Acceptance. I am eligible under Division 3	
of the Business and Professions Code in the applicable classification to accept responsibility for the system	
design, construction or installation of features, materials, components, or manufactured devices for the	Name
scope of work identified on this Certificate of Acceptance and attest to the declarations in this statement.	Company Name
The information provided on this Certificate of Acceptance substantiates that the construction or	Lic. No.: License No.
installation identified on this Certificate of Acceptance complies with the acceptance requirements	Title
indicated in the plans and specifications approved by the enforcement agency and conforms to the	Phone
applicable acceptance requirements and procedures specified in Reference Nonresidential Appendix NA7. I	Signature
have confirmed that the Certificate(s) of Installation for the construction or installation identified on this	Date Signed
Certificate of Acceptance has been completed and is posted or made available with the building permit(s)	
issued for the building. I understand that a completed, signed copy of this Certificate of Acceptance shall	
be posted, or made available with the building permit(s) issued for the building and shall be made	
available to the enforcement agency for all applicable inspections. I will take the necessary steps to fulfill	
this requirement. I understand that a signed copy of this Certificate of Acceptance is required to be	
included with the documentation the builder provides to the building owner at occupancy. I will take the	
necessary steps to fulfill this requirement.	