

**SUPPLY WATER TEMPERATURE RESET CONTROLS ACCEPTANCE**

CEC-NRCA-MCH-09-A (Revised 01/16)

CALIFORNIA ENERGY COMMISSION



CERTIFICATE OF ACCEPTANCE		NRCA-MCH-09-A
Supply Water Temperature Controls Acceptance		(Page 1 of 3)
Project Name:	Enforcement Agency:	Permit Number:
Project Address:	City:	Zip Code:
System Name or Identification/Tag:	System Location or Area Served:	

<i>Note: Submit one Certificate of Acceptance for each system that must demonstrate compliance.</i>	Enforcement Agency Use: Checked by/Date
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<b>Intent:</b>	<i>Ensure that both the chilled water and hot water supply temperatures are automatically reset based on either building loads or outdoor air temperature, as indicated in the control sequences.</i>
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<b>A. Construction Inspection</b>	
1. Supporting documentation needed to perform test includes, but not limited to:	
a.	2016 Building Energy Efficiency Standards Nonresidential Compliance Manual ( <i>NA7.5.8 Supply Water Temperature Reset Controls Acceptance At-A-Glance</i> )
2. Instrumentation to perform test includes, but is not limited to:	
a.	Calibrated reference temperature sensor, icewater, or drywell bath.
1.	Calibration Date: _____ (must be within last year).
3. Document that hydronic system supply temperature sensor(s) have been factory or field calibrated: (check the following that apply):	
<input type="checkbox"/>	Factory calibrated
<input type="checkbox"/>	Provide supporting documentation.
<input type="checkbox"/>	Field-calibrated by Controls contractor or other.
<input type="checkbox"/>	Calibration complete, hydronic system supply temperature sensors within 1% of calibrated reference sensor, icewater or drywell bath.
<input type="checkbox"/>	Provide supporting documentation.

<b>B. Functional Testing</b>	<b>Results</b>
<b>Step 1: Test Maximum Reset Value</b>	
a. Change reset control variable to its maximum value. This can be accomplished by any one of the following (check method):	<input type="checkbox"/>
<input type="checkbox"/> Commanding at least one coil valve to 100% open	
<input type="checkbox"/> Adjust discharge air temperature or zone temperature setpoints to drive a valve into a 100% open.	
<input type="checkbox"/> Override actual outdoor air sensor to exceed maximum water temperature boundary value.	
b. Verify that chilled or hot water temperature setpoint is reset to appropriate value.	Y / N
c. Verify that actual system temperature changes to within 2% of the new setpoint.	Y / N
<b>Step 2: Test Minimum Reset Value</b>	
a. Change reset control variable to its minimum value	<input type="checkbox"/>
b. Verify that chilled or hot water temperature setpoint is reset to appropriate value	Y / N
c. Verify that actual system temperature changes to within 2% of the new setpoint	Y / N
<b>Step 3: Test Automatic Control of Reset Control Variable.</b>	
a. Restore reset control variable to automatic control	<input type="checkbox"/>
b. Verify that chilled or hot water temperature setpoint is reset to appropriate value	Y / N
c. Verify that actual supply temperature changes to meet setpoint	Y / N
d. Verify that actual supply temperature changes to within 2% of the new setpoint	Y / N

<b>C. Testing Results</b>	<b>PASS / FAIL</b>	
System passes criteria in 1c, 2c and 3d	<input type="checkbox"/>	<input type="checkbox"/>

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<b>D. Evaluation</b>
<input type="checkbox"/> PASS: All <b>Construction Inspection</b> responses are complete and all <b>Testing Results</b> responses are "Pass"
Notes:

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<b>Supply Water Temperature Controls Acceptance</b>		<b>(Page 3 of 3)</b>
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<b>DOCUMENTATION AUTHOR'S DECLARATION STATEMENT</b>		
1. I certify that this Certificate of Acceptance documentation is accurate and complete.		
Documentation Author Name:	Documentation Author Signature:	
Documentation Author Company Name:	Date Signed:	
Address:	ATT Certification Identification (if applicable):	
City/State/Zip:	Phone:	
<b>FIELD TECHNICIAN'S DECLARATION STATEMENT</b>		
I certify the following under penalty of perjury, under the laws of the State of California:		
<ol style="list-style-type: none"> <li>The information provided on this Certificate of Acceptance is true and correct.</li> <li>I am the person who performed the acceptance verification reported on this Certificate of Acceptance (Field Technician).</li> <li>The construction or installation identified on this Certificate of Acceptance complies with the applicable acceptance requirements indicated in the plans and specifications approved by the enforcement agency, and conforms to the applicable acceptance requirements and procedures specified in Reference Nonresidential Appendix NA7.</li> <li>I have confirmed that the Certificate(s) of Installation for the construction or installation identified on this Certificate of Acceptance has been completed and signed by the responsible builder/installer and has been posted or made available with the building permit(s) issued for the building.</li> </ol>		
Field Technician Name:	Field Technician Signature:	
Field Technician Company Name:	Position with Company (Title):	
Address:	ATT Certification Identification (if applicable):	
City/State/Zip:	Phone:	Date Signed:
<b>RESPONSIBLE PERSON'S DECLARATION STATEMENT</b>		
I certify the following under penalty of perjury, under the laws of the State of California:		
<ol style="list-style-type: none"> <li>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.</li> <li>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 scope of work identified on this Certificate of Acceptance and attest to the declarations in this statement (responsible acceptance person).</li> <li>The information provided on this Certificate of Acceptance substantiates that the construction or installation identified on this Certificate of Acceptance complies with the acceptance requirements indicated in the plans and specifications approved by the enforcement agency, and conforms to the applicable acceptance requirements and procedures specified in Reference Nonresidential Appendix NA7.</li> <li>I have confirmed that the Certificate(s) of Installation for the construction or installation identified on this Certificate of Acceptance has been completed and is posted or made available with the building permit(s) issued for the building.</li> <li>I will ensure 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 made available to the enforcement agency for all applicable inspections. 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.</li> </ol>		
Responsible Acceptance Person Name:	Responsible Acceptance Person Signature:	
Responsible Acceptance Person Company Name:	Position with Company (Title):	
Address:	CSLB License:	
City/State/Zip:	Phone:	Date Signed:

**NRCA-MCH-09-A User Instructions****Section A. Construction Inspection**

This pre-test section consists of check boxes and data entry requirements. Complete check boxes and enter data as instructed.

**Section B. Functional Testing**

This section consists of check boxes and yes or no questions arranged by individual test. Check each box or circle the correct answer for each specific test or line item.

**Section C. Testing Results**

This section consists of check boxes for each test procedure. Complete check boxes as instructed.

**Section D. Evaluation**

Check the appropriate box as instructed.

**Declaration Statements of Acceptance**

This section contains fillable fields for three declaration statements: one from the Documentation Author, one from the Field Technician, and one from the Responsible Person. Each area contains a number of data entry requirements, including signature; date; and license number.

The Documentation Author is the person completing the compliance document. The Field Technician is responsible for performing and documenting the results of the acceptance procedures on the Certificate of Acceptance compliance documents. The Field Technician must sign the Certificate of Acceptance to certify that the information he or she provides on the Certificate of Acceptance is true and correct. It is important to note that the Field Technician is not required to have a contractor's, architect's or engineer's license. A Responsible Person is eligible under Division 3 of the Business and Professions code in the applicable classification to take responsibility for the scope of work specified by the Certificate of Acceptance document. The Responsible Person can also perform the field testing and verification work, and if this is the case the Responsible Person must complete and sign both the Field Technician's signature block and the Responsible Person's signature block on the Certificate of Acceptance compliance document. The Responsible Person assumes responsibility for the acceptance testing work performed by the Field Technician agent or employee.