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<th><strong>Docket Number:</strong></th>
<th>13-ATTCP-01</th>
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<tr>
<td><strong>Project Title:</strong></td>
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<tr>
<td><strong>TN #:</strong></td>
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<tr>
<td><strong>Document Title:</strong></td>
<td>Presentation - California 2016 Building Energy Efficiency Standards for Nonresidential Buildings</td>
</tr>
<tr>
<td><strong>Description:</strong></td>
<td>N/A</td>
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<td><strong>Filer:</strong></td>
<td>Patty Paul</td>
</tr>
<tr>
<td><strong>Organization:</strong></td>
<td>National Energy Management Institute Committee (NEMIC)</td>
</tr>
<tr>
<td><strong>Submitter Role:</strong></td>
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<td><strong>Submission Date:</strong></td>
<td>5/24/2016 1:55:30 PM</td>
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<tr>
<td><strong>Docketed Date:</strong></td>
<td>5/24/2016</td>
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</table>
CALIFORNIA 2016 BUILDING ENERGY EFFICIENCY STANDARDS FOR NONRESIDENTIAL BUILDINGS

Notable Changes to the 2013 Version
The purpose of this webinar is to familiarize yourself with the changes to the 2016 Building Energy Efficiency Standards ("Standards"), and in particular, any changes to the Nonresidential Compliance Manual and the mandated mechanical acceptance tests.

You are required to attend this webinar as part of the recertification requirements as set forth by the Standards as well as by Section 2.3 Renewal of Certification of the NEMIC ATTCP Certification Manual. Failure to do so will result in decertification.
Overview

- The most significant efficiency improvements to the nonresidential Standards include alignment with the ASHRAE 90.1 2013 national standards.
- New efficiency requirements for elevators and direct digital controls are included in the nonresidential Standards.
- The 2016 Standards also include changes made throughout all of its sections to improve the clarity, consistency, and readability of the regulatory language.
Overview

- Changes to Standards Part 1 - California Building Standards Administrative Code
- Changes to Standards Part 6 - California Energy Code
- Changes to Nonresidential Appendix NA7 – Installation and Acceptance Requirements for Nonresidential Buildings and Covered Processes
Overview

- The California Code or Regulation Title 24 is organized into separate parts:
  - Part 1 - California Building Standards Administrative Code
  - Part 2 - California Building Code
  - Part 2.5 - California Residential Building Code
  - Part 3 - California Electrical Code
  - Part 4 - California Mechanical Code
  - Part 5 - California Plumbing Code
  - Part 6 - California Energy Code
CHANGES TO STANDARDS PART 1 - California Building Standards Administrative Code
10-103.2 – NONRESIDENTIAL MECHANICAL ACCEPTANCE TEST TRAINING AND CERTIFICATION

- (b)1A. No changes with regard to number of (300) Certified Acceptance Test Technicians for the mandates to take effect.

- (c)3B(vi) Recertification. The ATTCP shall recertify all Acceptance Test Technicians and Acceptance Test Employers prior to the implementation of each adopted update to the Building Energy Efficiency Standards as these updates affect the acceptance test requirements. Recertification requirements and procedures shall only apply to those specific elements that are new or modified in future updates to Building Energy Efficiency Standards.
10-103.2 - NONRESIDENTIAL MECHANICAL ACCEPTANCE TEST TRAINING AND CERTIFICATION

(b)1A. No changes with regard to number of (300) Certified Acceptance Test Technicians for the mandates to take effect.

(c)3B(vi) Recertification. The ATTCP shall recertify all Acceptance Test Technicians and Acceptance Test Employers prior to the implementation of each adopted update to the Building Energy Efficiency Standards as these updates affect the acceptance test requirements. Recertification requirements and procedures shall only apply to those specific elements that are new or modified in future updates to Building Energy Efficiency Standards.
CHANGES TO STANDARDS PART 6 - California Energy Code
<table>
<thead>
<tr>
<th>Occupancies</th>
<th>Application</th>
<th>Mandatory</th>
<th>Prescriptive</th>
<th>Performance</th>
<th>Additions/Alterations</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Provisions for All Buildings</td>
<td>100.0, 100.1, 100.2, 110.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>120.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Envelope (conditioned)</td>
<td>110.6, 110.7, 110.8, 120.7</td>
<td></td>
<td></td>
<td>140.3</td>
<td></td>
</tr>
<tr>
<td>Envelope (unconditioned process spaces)</td>
<td>N.A.</td>
<td></td>
<td></td>
<td>140.3(c)</td>
<td></td>
</tr>
<tr>
<td>HVAC (conditioned)</td>
<td>110.2, 110.5, 120.1, 120.2, 120.3, 120.4, 120.5, 120.8</td>
<td>140.4</td>
<td></td>
<td>140.0, 140.1</td>
<td></td>
</tr>
<tr>
<td>Nonresidential, High-Rise Residential, And Hotels/Motels</td>
<td>110.3, 120.3, 120.8, 120.9</td>
<td></td>
<td></td>
<td>140.5</td>
<td>141.0</td>
</tr>
<tr>
<td>Water Heating</td>
<td>110.9, 120.8, 130.0, 130.1, 130.4</td>
<td></td>
<td></td>
<td>140.3(c), 140.6</td>
<td></td>
</tr>
<tr>
<td>Indoor Lighting (conditioned, process spaces)</td>
<td>110.9, 120.8, 130.0, 130.1, 130.4</td>
<td></td>
<td></td>
<td>140.3(c), 140.6</td>
<td></td>
</tr>
<tr>
<td>Indoor Lighting (unconditioned and parking garages)</td>
<td>110.9, 120.8, 130.0, 130.1, 130.4</td>
<td></td>
<td></td>
<td>140.3(c), 140.6</td>
<td></td>
</tr>
<tr>
<td>Outdoor Lighting</td>
<td>110.9, 130.0, 130.2, 130.4</td>
<td></td>
<td></td>
<td>140.7</td>
<td>141.0</td>
</tr>
<tr>
<td>Electrical Power Distribution</td>
<td>110.11, 130.5</td>
<td></td>
<td></td>
<td>N.A.</td>
<td></td>
</tr>
<tr>
<td>Pool and Spa Systems</td>
<td>110.4, 110.5, 150.0(p)</td>
<td></td>
<td></td>
<td>N.A.</td>
<td>141.0</td>
</tr>
<tr>
<td>Solar Ready Buildings</td>
<td>110.10</td>
<td>N.A.</td>
<td></td>
<td></td>
<td>141.0(a)</td>
</tr>
</tbody>
</table>
SECTION 110.2 – MANDATORY REQUIREMENTS FOR SPACECONDITIONING EQUIPMENT

This update brings the minimum efficiency requirements in alignment with ASHRAE 90.1.
### TABLE 110.2-A ELECTRICALLY OPERATED UNITARY AIR CONDITIONERS AND CONDENSING UNITS – MINIMUM EFFICIENCY REQUIREMENTS

<table>
<thead>
<tr>
<th>Equipment Type</th>
<th>Size Category</th>
<th>Efficiency Before 1/1/2016</th>
<th>Efficiency After 1/1/2016</th>
<th>Test Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air conditioners, air-cooled</td>
<td>≥ 65,000 Btu/h and &lt; 125,000 Btu/h</td>
<td>11.2 EER</td>
<td>11.2 EER</td>
<td>ANSI/ASHRAE 340.360</td>
</tr>
<tr>
<td>Air conditioners, air-cooled</td>
<td>≥ 125,000 Btu/h and &lt; 240,000 Btu/h</td>
<td>11.0 EER</td>
<td>11.0 EER</td>
<td>ANSI/ASHRAE 340.360</td>
</tr>
<tr>
<td>Air conditioners, air-cooled</td>
<td>≥ 240,000 Btu/h and &lt; 750,000 Btu/h</td>
<td>10.0 EER</td>
<td>10.0 EER</td>
<td>ANSI/ASHRAE 340.360</td>
</tr>
<tr>
<td>Air conditioners, air-cooled</td>
<td>≥ 750,000 Btu/h</td>
<td>9.7 EER</td>
<td>9.7 EER</td>
<td>ANSI/ASHRAE 340.360</td>
</tr>
<tr>
<td>Air conditioners, water-cooled</td>
<td>≥ 65,000 Btu/h and &lt; 125,000 Btu/h</td>
<td>12.1 EER</td>
<td>12.1 EER</td>
<td>ANSI/ASHRAE 340.360</td>
</tr>
<tr>
<td>Air conditioners, water-cooled</td>
<td>≥ 125,000 Btu/h and &lt; 240,000 Btu/h</td>
<td>12.3 EER</td>
<td>12.3 EER</td>
<td>ANSI/ASHRAE 340.360</td>
</tr>
<tr>
<td>Air conditioners, water-cooled</td>
<td>≥ 240,000 Btu/h and &lt; 750,000 Btu/h</td>
<td>12.4 EER</td>
<td>12.4 EER</td>
<td>ANSI/ASHRAE 340.360</td>
</tr>
<tr>
<td>Air conditioners, water-cooled</td>
<td>≥ 750,000 Btu/h</td>
<td>12.5 EER</td>
<td>12.5 EER</td>
<td>ANSI/ASHRAE 340.360</td>
</tr>
</tbody>
</table>

#### Notes:
- EERs are only applicable to equipment with capacity control as specified by ANSI/ASHRAE 340-360 test procedures.
- EERs do not apply to equipment with capacity control as specified by ANSI/ASHRAE 340-360 test procedures.
- Applicable test procedures and definitions are provided under the definitions.
SECTION 120.2 – REQUIRED CONTROLS FOR SPACE-CONDITIONING SYSTEMS

(i) Economizer Fault Detection and Diagnostics (FDD)
All newly installed air-cooled packaged direct expansion units with an air handler mechanical cooling capacity greater than or equal to 54,000 Btu/hr with an installed air economizer shall include a stand alone or integrated Fault Detection and Diagnostics (FDD) system in accordance with Subsections 120.2(i)1 through 120.2(i)8.
SECTION 120.2 – REQUIRED CONTROLS FOR SPACE-CONDITIONING SYSTEMS

(k) Optimum Start/Stop Controls.

Space conditioning systems with DDC to the zone level shall have optimum start/stop controls. The control algorithm shall, as a minimum, be a function of the difference between space temperature and occupied setpoint, the outdoor air temperature, and the amount of time prior to scheduled occupancy. Mass radiant floor slab systems shall incorporate floor temperature onto the optimum start algorithm.
SECTION 140.4 – PRESCRIPTIVE REQUIREMENTS FOR SPACE CONDITIONING SYSTEMS

(n) Mechanical System Shut-off.
Any directly conditioned space with operable wall or roof openings to the outdoors shall be provided with interlock controls that disable or reset the temperature setpoint to 55°F for mechanical heating and disable or reset the temperature setpoint to 90°F for mechanical cooling to that space when any such opening is open for more than 5 minutes.
EXCEPTION 1 to Section 140.4(n): Interlocks are not required on doors with automatic closing devices.
EXCEPTION 2 to Section 140.4(n): Any space without a thermostatic control (thermostat or a space temperature sensor used to control heating or cooling to the space).
CHANGES TO NONRESIDENTIAL APPENDIX NA7 - Installation And Acceptance Requirements For Nonresidential Buildings And Covered Processes
13. Acceptance Test Requirements

13.1 New Acceptance Test Requirements for 2016

A. Building Envelope, §110.6:
   • No changes.

B. Mechanical Acceptance Tests, §120.5:
   • Thermal Energy Storage (TES) Systems (NRCA-MCH-15-A)
     o Incorporates new acceptance criteria.
   • Minor clarifications:
     o Outdoor Air (NRCA-MCH-02-A)
     o Supply Water Temperature Reset Controls (NRCA-MCH-09-A)
     o Hydronic System Variable Flow Controls (NRCA-MCH-10-A)
     o Fault Detection & Diagnostics for DX Units (NRAC-MCH-12-A)
     o Automatic Fault Detection & Diagnostic for Air Handling & Zone Terminal Units (NRCA-MCH-13-A)

C. Lighting Controls Acceptance Tests, §130.4:
   • New Acceptance Test
     o Institutional Tuning of Lighting Controls (NRCA-LTI-05-A)
   • Significant Alterations to Acceptance Tests
     o New sampling allowance for acceptance tests.
     o Changes to the lighting control occupancy sensor maximum time-out period.
     o Changes to the weighted area calculation procedure requirements.
   • Minor clarifications:
     o Outdoor Lighting Acceptance Tests (NRCA-LTO-02-A)

D. Covered Process Spaces and Equipment, §120.6:
   • New Acceptance Tests
     o Elevator Lighting and Ventilation Controls (NRCA-PRC-12-F)
     o Escalator and Moving Walkway Speed Control (NRCA-PRC-13-F)
   • Changes to Acceptance Procedures
     o Commercial Kitchen Exhaust (NRCA-PRC-02-A)
     o Parking Garage Exhaust (NRCA-PRC-03-F)
**NA7.3 Roles and Responsibilities**

Individuals who perform the field testing and verification work, and provide the information required for completion of the Certificate of Acceptance documentation are not required to be licensed professionals. The person who signs the Certificate of Acceptance document to certify compliance with the acceptance requirements shall be licensed as specified in Standards Section 10-103(a)4.
4. Certificate of Acceptance. For all nonresidential buildings, high-rise residential buildings, and hotels and motels, when designated to allow use of an occupancy group or type regulated by Part 6 the person in charge of the acceptance testing, who is eligible under Division 3 of the Business and Professions Code to accept responsibility for the applicable scope of system design, or construction, or installation of features, materials, components, or manufactured devices regulated by Part 6 or the Appliance Efficiency Regulations (responsible person), shall sign and submit all applicable Certificate of Acceptance documentation in accordance with Section 10-103(a)4 and Nonresidential Appendix NA7 to certify conformance with Part 6.
4. Certificate of Acceptance. (continued)
If more than one person has responsibility for the acceptance testing, each person shall sign and submit
the Certificate of Acceptance documentation applicable to the portion of the construction or
installation, for which they are responsible; alternatively, the person with chief responsibility for the
system design, construction or installation, shall sign and submit the Certificate of Acceptance
documentation for the entire construction or installation scope of work for the project. Subject to the
requirements of Section 10-103(a)4, persons who prepare Certificate of Acceptance documentation
/documentation authors) shall sign a declaration statement on the documents they prepare to certify the
information provided on the documentation is accurate and complete. Persons who perform acceptance
test procedures in accordance with the specifications in Reference Joint Appendix NA7, and report the
results of the acceptance tests on the Certificate of Acceptance (field technicians) shall sign a
declaration statement on the documents they submit to certify the information provided on the
documentation is true and correct. In accordance with applicable requirements of 10-103(a)4, the
signatures provided by responsible persons, field technicians, and documentation authors shall be
original signatures on paper documents or electronic signatures on electronic documents conforming to
the electronic signature specifications in Reference Joint Appendix JA7.
NA7.3.1 Responsible Person
The Certificate of Acceptance shall be signed by the person who is in charge of the acceptance testing for the scope of work identified on the Certificate of Acceptance. The Responsible Person shall be a licensed professional who is eligible under Division 3 of the Business and Professions code in the applicable classification, to take responsibility for the aspects of the system design, construction, or installation applicable to the scope of work identified on the Certificate of Acceptance. The Responsible Person shall review the information on the Certificate of Acceptance document and sign the document to certify compliance with the acceptance requirements. The Responsible Person shall assume responsibility for the acceptance testing work performed by the Field Technician agent(s) or employee(s), and if necessary shall interview the person who performed the acceptance test work in order to ascertain whether the testing work reported on the Certificate of Acceptance was completed as reported and is consistent with the Responsible Person's expectation. The Responsible Person may also perform the required acceptance testing work, and in that case shall also sign as the Field Technician on the Certificate of Acceptance document.
NA7.3.2 Field Technician
The Field Technician is responsible for performing the acceptance test procedures and documenting the results on the Certificate of Acceptance document. The Field Technician shall sign the Certificate of Acceptance to certify that the information provided on the Certificate of Acceptance is true and correct.

NA7.3.3 Documentation Author
Documentation Authors who provide administrative support for document preparation for Certificate of Acceptance documentation shall sign a declaration statement on the documents they prepare to certify the information provided on the documentation is accurate and complete.
CERTIFICATE OF ACCEPTANCE - USER INSTRUCTIONS

NEMIC-MCH-02-01

Outdoor Air Acceptance

Page 2 of 2

NATIONAL ENERGY MANAGEMENT INSTITUTE COMMITTEE

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This form is used to document the results of the minimum outdoor air ventilation tests for both constant and variable air volume fan systems. A separate form should be completed for each system tested. The form is separated into several sections: construction inspection, functional testing, testing calculations, results, and test fail explanation. Each section consists of a combination of data entry requirements and check boxes.

Section A. Construction Inspection

This section consists of check boxes and data entry requirements for both constant and variable air volume systems. Enter only the check boxes associated with the appropriate system type.

Section B. ASHRAE Outdoor Air Acceptance - Functional Testing

This section consists of check boxes and data entry requirements for both constant and variable air volume systems. Enter data associated with the appropriate system type as instructed.

Section C. Testing Calculations and Results

This section consists of data entry requirements for both constant and variable air volume systems. Enter data associated with the appropriate system type as instructed.

Section D. Evaluation

This section contains check boxes to indicate the acceptability of the test(s). Check the appropriate box. Any portion that fails should be addressed in the green boxes.

Declaration Statement

This section contains fields for the declaration statements, one for the Documentation Author, one for the Field Technician, and one for the Responsible Person. Each area contains a combination of check boxes and data entry requirements, including signature, date, and testing number. Complete check boxes and enter data as instructed.

The Documentation Author is the person completing the form. The Field Technician is responsible for performing and documenting the results of the acceptance procedure on the Certificate of Acceptance form. The Responsible Person is responsible for verifying the accuracy of information on the Certificate of Acceptance. It is important to note that the Field Technician is not required to have a contractor’s, architect’s, or engineer’s license. If the Responsible Person is unable under subsection 5 of the Sustainable Design and Education Act to specify 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 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 form. The Responsible Person assumes responsibility for the acceptance testing work performed by the Field Technician agent or employee.

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CB Building Energy Efficiency Standards - 2016/2018 Nonresidential Compliance

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FAULT DETECTION AND DIAGNOSTICS FOR PACKAGED DIRECT EXPANSION UNITS

NOMIC-AX3-12-A

Page 2 of 3

APX-12-A User Instructions

Design and data entry requirements: Complete check boxes and select data

Alert at no questions remained by individual test. Check box or enter a

In each test procedure, complete check boxes as instructed.

APX-12-A User Instructions

Design and data entry requirements: Complete check boxes and select data

Alert at no questions remained by individual test. Check box or enter a

In each test procedure, complete check boxes as instructed.

Page 2 of 3

APX-12-A User Instructions

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Design and data entry requirements: Complete check boxes and select data

Alert at no questions remained by individual test. Check box or enter a

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APX-12-A User Instructions

Design and data entry requirements: Complete check boxes and select data

Alert at no questions remained by individual test. Check box or enter a

In each test procedure, complete check boxes as instructed.

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APX-12-A User Instructions

Design and data entry requirements: Complete check boxes and select data

Alert at no questions remained by individual test. Check box or enter a

In each test procedure, complete check boxes as instructed.

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Design and data entry requirements: Complete check boxes and select data

Alert at no questions remained by individual test. Check box or enter a

In each test procedure, complete check boxes as instructed.

Page 2 of 3

APX-12-A User Instructions

Design and data entry requirements: Complete check boxes and select data

Alert at no questions remained by individual test. Check box or enter a

In each test procedure, complete check boxes as instructed.

Page 2 of 3

APX-12-A User Instructions

Design and data entry requirements: Complete check boxes and select data

Alert at no questions remained by individual test. Check box or enter a

In each test procedure, complete check boxes as instructed.

Page 2 of 3

APX-12-A User Instructions

Design and data entry requirements: Complete check boxes and select data

Alert at no questions remained by individual test. Check box or enter a

In each test procedure, complete check boxes as instructed.

Page 2 of 3

APX-12-A User Instructions

Design and data entry requirements: Complete check boxes and select data

Alert at no questions remained by individual test. Check box or enter a

In each test procedure, complete check boxes as instructed.
STATE OF CALIFORNIA
AUTOMATIC FAULT DETECTION AND DIAGNOSTICS FOR AIR HANDLING UNITS AND ZONE TERMINAL UNITS ACCEPTANCE

CA Building Energy Efficiency Standards: SB-2004 Nonresidential Compliance

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NATIONAL ENERGY MANAGEMENT INSTITUTE COMMITTEE

DOCUMENTATION: Site Location: [Insert Location]

Automated Fault Detection and Diagnostics (FDD) for Air Handling Units and Zone Terminal Units Acceptance

Date: [Insert Date]

Inspection: [Insert Inspection]

Certification: [Insert Certification]

If all terminal units meet the criteria, this documentation must be submitted to the [Insert Auditory body] before the final acceptance.

[Insert Signature]
[Insert Title]
[Insert Company]

[Date]

Note: This document is a sample and should be modified to fit the specific requirements of the project.
**NOMIC**

**STATE OF CALIFORNIA**

**THERMAL ENERGY STORAGE (TES) SYSTEM ACCEPTANCE**

**CALIFORNIA ENERGY COMMISSION**

**MRC-AMC-SE 4**

<table>
<thead>
<tr>
<th>Certificate of Acceptance - User Instructions</th>
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</thead>
<tbody>
<tr>
<td>thermal Energy Storage (Tes) System acceptance</td>
</tr>
<tr>
<td>California Department of Water Resources</td>
</tr>
<tr>
<td>(Department of Water Resources)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Action</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td>Verify proper operation of distributed energy storage TES systems.</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td>Construction Inspection:</td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td>a. Supporting documentation needed to perform test includes:</td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td>b. Approved submittals (for chillers, storage tanks, controls)</td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td>c. Copy of manufacturer's product literature</td>
</tr>
<tr>
<td>6.</td>
<td></td>
<td>d. Copy of part number appendix to Title 24</td>
</tr>
</tbody>
</table>

**System Installation Information**

The following information for both the chiller and the storage tank(s) shall be provided on the plans to document the use of the TES System parameter. Information is likely to be found in submittal documents:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Centrifugal, Centripetal, etc.</td>
<td></td>
</tr>
<tr>
<td>Heat rejection type</td>
<td>air, water, liquid</td>
<td></td>
</tr>
<tr>
<td>Inlet temperature</td>
<td>@ avg. fluid temp.</td>
<td></td>
</tr>
<tr>
<td>Discharge mode</td>
<td>capacity (design, ambient)</td>
<td></td>
</tr>
<tr>
<td>Design efficiency</td>
<td>kW/ton or kW/ton</td>
<td></td>
</tr>
<tr>
<td>Design ambient temp.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fluid type percentage</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Results**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Action</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td>Verify proper operation of the TES System</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td>Schedule to specify mode of operation</td>
</tr>
</tbody>
</table>

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RECERTIFICATION
Next Steps

1. Download (by double clicking on the image) and save the document to your local folder.

2. Complete the 2016 Recertification Statement. The document should be signed electronically. If not, you will need to make a paper copy and rescan the paper copy before emailing it. NEMIC will not accept paper copies of the document.

3. Email the completed document to administrator@attp.org.
Thank you!