

# Mechanical Compliance Certificate for Complex Systems for the 1998 IECC

ALL INFORMATION MUST BE FILLED IN - PRINT CLEARLY

## Section 1 - Project Information

Project Name		Permit #
Address		Date
Owner/Agent	Telephone	Checked By
Documentation Author	Telephone	Date For Department Use Only

## Section 2 - General Information

Building Floor Area \_\_\_\_\_ sf

Project Description     New Construction     Addition     Alteration     Unconditioned Shell

## Section 3 - Requirements Checklist

	Inspection Date	Approved By	Notes
<p><b>Load Calculations</b></p> <ul style="list-style-type: none"> <li>• Load calculations per 1997 ASHRAE Fundamentals and</li> <li>• Capacities shown on plans</li> </ul>	_____	_____	
<p><b>Equipment Efficiency</b></p> <ul style="list-style-type: none"> <li>• Newly purchased equipment covered by mfr. Std. or <input type="checkbox"/></li> <li>• Meets efficiency requirements in table <input type="checkbox"/></li> </ul>	_____	_____	
<p><b>HVAC System Controls</b></p> <ul style="list-style-type: none"> <li>• Minimum one temperature control device per zone</li> <li>• Minimum thermostat capabilities:                             <ul style="list-style-type: none"> <li>- Minimum 5° F deadband</li> <li>- Setback/setup capability to 55°F (htg.) &amp; 85°F (clg.)</li> <li>- 7-day clock, 2-hr occupant override, 10-hr backup</li> </ul> </li> <li>Thermostat setback capability exceptions:                             <ul style="list-style-type: none"> <li>multifamily residential <input type="checkbox"/></li> <li>hotel/motel guest rooms <input type="checkbox"/></li> <li>areas that operate continuously <input type="checkbox"/></li> </ul> </li> <li>• Heat pump thermostat used with supplemental electric resistance heat</li> </ul>	_____	_____	
<p><b>Outdoor-Air Ventilation</b></p> <ul style="list-style-type: none"> <li>• In accordance with Chapter 4 of the IMC</li> <li>• Automatic shut-off dampers on supply and exhaust systems with airflow &gt;3,000 cfm</li> </ul>	_____	_____	
<p><b>Economizers</b></p> <ul style="list-style-type: none"> <li>• Economizers on systems <math>\geq 90,000</math> Btu/h or <math>\geq 3,000</math> cfm</li> <li>Exceptions:                             <ul style="list-style-type: none"> <li>exempted climate zone <input type="checkbox"/></li> <li>supermarkets, residential, hotel guest rooms <input type="checkbox"/></li> <li>high-efficiency cooling equipment tradeoff <input type="checkbox"/></li> <li>minimum EER: _____ EER: _____</li> <li>other _____ <input type="checkbox"/></li> </ul> </li> </ul>	_____	_____	
<p><b>Hydronic Systems Control</b></p> <ul style="list-style-type: none"> <li>• Separate hot and cold water supplies and returns</li> <li>• No capability for concurrent hot and chilled water supply to terminals</li> <li>Exception: zones with special humidity requirements <input type="checkbox"/></li> <li>• Hydronic systems <math>\geq 600</math> kBtu/h have:                             <ul style="list-style-type: none"> <li>- reset controls for supply water temperature or <input type="checkbox"/></li> <li>- mechanical or electrical adjustable-speed pump drive(s) or <input type="checkbox"/></li> <li>- multiple-stage pumps or <input type="checkbox"/></li> <li>- other system controls that reduce pump flow by at least 50% based on load (calculations required) <input type="checkbox"/></li> </ul> </li> </ul>	_____	_____	

