Mechanical Compliance Certificate for Complex Systems for the 1998 IECC							
ALL INFORMATION MUST BE FILLED IN - PRINT CLEARLY							
Sectio	n 1 - I	Project Information					
Project Name		Permit #	Permit #				
Address			Date				
Owner/Agent	Telephone		Checked By	Checked By			
Documentation Author	Tele	phone	Date				
Section	n 2 - (General Information	For De	partment Use Only			
Building Floor Area st							
Project Description	ition	□ Alteration		d Shell			
Section 3	8 - Re	quirements Checklist					
		Inspection	Approved				
		Date	Ву	Notes			
Load Calculations							
 Load calculations per 1997 ASHRAE Fundamentals an Capacities shown on plans 	nd						
Equipment Efficiency							
 Newly purchased equipment covered by mfr. Std. or Meets efficiency requirements in table 							
HVAC System Controls							
Minimum one temperature control device per zone							
 Minimum thermostat capabilities: Minimum 5° F deadband Setback/setup capability to 55°F (htg.) & 85°F (7-day clock, 2-hr occupant override, 10-hr bac Thermostat setback capability exceptions:	clg.) kup □ □ c						
Outdoor-Air Ventilation							
In accordance with Chapter 4 of the IMC							
 Automatic shut-off dampers on supply and exhaust systems with airflow >3,000 cfm 							
Economizers							
 Economizers on systems ≥90,000 Btu/h or ≥3,000 cfr Exceptions: exempted climate zone supermarkets, residential, hotel guest rooms high-efficiency cooling equipment tradeoff minimum EER: EER: other 	n 🗆						
Hydronic Systems Control							
Separate hot and cold water supplies and returns							
 No capability for concurrent hot and chilled water sup to terminals 	oply						
Exception: zones with special humidity requirements							
 Hydronic systems \$ 600 kBtu/h have: reset controls for supply water temperature or mechanical or electrical adjustable-speed pump drive(s) or multiple-stage pumps or other system controls that reduce pump flow b 	y at						

Mechanical Compliance Certificate for Complex Systems(Continued)					
Section 3 - Re	quirements Checklis	t			
	Inspection	Approved	Notos		
	Date	Ву	Notes		
Variable Air Volume Fan Control					
 Systems serving more than one zone are VAV 					
Exceptions:					
- special pressurization relationships					
- special humidity requirements					
– zone supply <300 cfm & <10% of total fan supply \Box					
- where reheated/recooled air < min OSA req. □					
- sequential controls that prevent reneat/recool \Box					
 have mech, or electrical variable speed drive(s) or 					
 are vane-axial fans wth variable pitch blades or 					
 have other controls that reduce motor demand to 					
50% design kW at 50% design flow (calcs. req.)					
 Controls are capable of resetting supply air temp (SAT) by 25% of (SAT - room temp) difference 					
 Single-duct VAV terminals are capable of reducing 					
primary air before reheating					
 Dual-duct VAV mixing boxes are installed to minimize mixing 					
Duct Construction					
 Duct insulation meets minimum R-values Ducts in unconditioned spaces R-value Ducts outside the building R-value 					
Ducts sealed					
 Joints and seams on ductwork fastened and sealed per UL 181A or B (no duct tape as primary sealant) 					
 Systems with \$3" wg sealed in accordance with SMACNA Leakage Class (CL) < 6.0 					
Hydronic Heating Systems					
Pipe insulation:					
 ½ in. orheating coil branches 11/ in amiraulation loopa 					
Part-load efficiency method:					
- temperature reset or					
- variable flow					
HVAC System Completion					
 Balancing devices in accordance with IMC 603.15 					
 Balancing and pressure test connections on all hydronic terminal devices 					
O & M manual(s) provided to building owner					
Section 4 - Compliance Statement					
I he proposed mechanical design represented in these documents is consistent with the building plans, specifications,					
meet the 1998 IECC mechanical requirements using C	auon. The proposed i ΩMcheck-FZ™ Versic	nechanical system n	as been designed to		
Principal Mechanical Designer – Name	Signature		Date		

Principal Mechanical Designer – Name	Signature	Date
NOTE: This form is required on project plans.	•	