Mechanical Compliance Certificate for Complex Systems for the 90.1 ('89) Code ALL INFORMATION MUST BE FILLED IN - PRINT CLEARLY							
		Date					
Address							
Owner/Agent	Telephone		Checked By				
Documentation Author	Telephone		Date For Department Use Only				
Sectio	n 2 - (General Information	FULD	epartment Ose Only			
Building Floor Area sf							
Project Description New Construction Ado		□ Alteration	Unconditione	ed Shell			
Section 3	3 - Re	quirements Checklis Inspection	Approved				
		Date	Ву	Notes			
Load Calculations							
 Load calculations per 1997 ASHRAE Fundamentals a 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 back Thermostat setback capability exceptions: multifamily residential hotel/motel guest rooms areas that operate continuously Heat pump thermostat used with supplemental electric resistance heat 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 cfm Exceptions: exempted climate zone supermarkets, residential, hotel guest rooms high-efficiency cooling equipment tradeoff minimum EER: EER: 	kup						
other							
Hydronic Systems Control							
 Separate hot and cold water supplies and returns No capability for concurrent hot and chilled water supplies an	oply						
to terminals	рру						
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 least 50% based on load (calculations required) 							

Mechanical Compliance Certificate for Complex Systems(Continued)					
Section 3 - Re	quirements Checklis	t			
	Inspection	Approved			
	Date	Ву	Notes		
Variable Air Volume Fan Control					
 Systems serving more than one zone are VAV 					
Exceptions:					
- special pressurization relationships					
 75% energy recovery pecial humidity requirements 					
- special number requirements □ - zone supply <300 cfm & <10% of total fan supply □					
- where reheated/recooled air < min OSA req. □					
- sequential controls that prevent reheat/recool					
 VAV fans with motors \$ 25 hp: 					
- have mech. or elec. variable speed drive(s) or					
 are vane-axial fans with 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 					
- 1½ in. orcirculation loops					
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 - Co	ompliance Statement				
The proposed mechanical design represented in these documents is consistent with the building plans, specifications,					
and other calculations submitted with this permit applic			as been designed to		
meet the 90.1 ('89) Code mechanical requirements usi	*	ersion 2.1.			
Principal Mechanical Designer – Name	Signature		Date		

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