# Calibration and Maintenance Checks for Recommissioning

Cold-deck Air Handler Calibration Points

Point	Acceptable Range	Frequency	
Duct static pressure	$\pm$ 0.3 in. wc.	Annually	
Discharge air temperature	± 0,5°C (± 1ºF)	Annually	
Return air temperature	± 0,5°C (± 1ºF)	Annually	
Outdoor air temperature	± 0,5°C (± 1ºF)	Annually	
Mixed air temperature	± 0,5°C (± 1ºF)	Every 2 years	

• Cold-deck Air Handler Calibration Points

Point	Acceptable Range	Frequency	
Duct static pressure	±0.3 in. wc.	Annually	
Discharge air temperature	± 0,5°C (± 1ºF)	Annually	

### • Chilled Water Plant Calibration Points

Point	Acceptable Range	Frequency	
Supply water temperature (for each chiller)	± 0,5°C (± 1°F)	Annually	
Differential pressure sensor (across secondary pump headers)	ders) ± 10% Annua		
Differential pressure sensor (across supply/return lines to AHU1)	± 10%	Annually	
Primary chilled water flow	± 10%	Every 2 years	
Secondary chilled water flow	± 10%	Every 2 years	
Secondary loop supply water temperature	± 0,5°C (± 1ºF)	Every 2 years	
Secondary loop return water temperature	± 0,5°C (± 1ºF)	Every 2 years	
Primary loop supply water temperature	± 0,5°C (± 1ºF)	Every 2 years	

## • Cooling Tower Calibration Points

Point	Acceptable Range	Frequency
Condenser water supply temperature	± 0,5°C (± 1ºF)	Annually
Condenser water return temperature (to cooling towers)	± 0,5°C (± 1ºF)	Every 2 years
Condenser water supply temperature to heat exchanger	± 0,5°C (± 1ºF)	Every 2 years
Condenser water return temperature from heat exchanger to tower	± 0,5°C (± 1ºF)	Every 2 years
Computer cooling water supply temperature	± 0,5°C (± 1ºF)	Every 2 years
Computer cooling water return temperature	± 0,5°C (± 1ºF)	Every 2 years
Cooling tower sump temperature (each cooling tower)	± 0,5°C (± 1ºF)	Every 2 years

### • Heating Hot Water Plant Calibration Points

Point	Acceptable Range	Frequency		
Hot water temperature sensor T2 (used to control Aerco boilers)	$+ 1^{\circ}(-1 + 2^{\circ}F)$ (Appl)			
Secondary loop supply water temperature (2-point calibration)	± 1°C (± 2°F)	Annually		
Differential pressure sensor (across secondary pump headers)	± 10% Annually			
Differential pressure sensor (across supply/return lines located on B1)	± 10%	Annually		
Secondary loop water flow measurement	± 10%	Every 2 years		
Secondary loop return water temperature	± 1°C (± 2°F) Every 2 years			

#### • Miscellaneous Calibration Points

Point	Acceptable Range	Frequency	
Carbon monoxide sensors	± 3 ppm	Annually	

#### • Calibration Form

Point Name	Date Calibrated	Sensor condition ok? (Y/N)	Measured Value	EMS value	As-found EMS offset	New EMS offset	Final EMS value