

## **Commercial Boiler System Maintenance Check List**

Check 🗆	when complete		
Daily			
	Check sight-glass water level / system pressure (steam vs hydronic).		
	Observe flame quality & burner sound.		
	Blow-down gauge glass & LWCO		
	Record feed-water chemistry and make-up volume (O&M Manual B pre-start item 6).		
	Walk boiler room for leaks, vibration, or alarms.		
Weekly			
	Trip low-water cut-off by draining water column—burner must shut down		
	Exercise manual shut-off valves in the fuel train, then leak-test.		
	Inspect burner linkage pins & air-damper travel.		
	Prime steam traps or open hydronic auto-vents as applicable.		
Monthly			
	Clean combustion-air inlet filter.		
	Inspect refractory; vacuum burner fan screens.		
	Lubricate fan/blower and pump bearings.		
	Review chemical logs; adjust sulfite/nitrite as needed.		
Quarterly			
	Perform full combustion analysis; adjust $O_2/CO_2$ and draft.		

		Brush fireside tubes; descale waterside if indicated.	
		Bubble-test safety shut-off valves.	
		Check condensate temperature (< 200 °F) or expansion-tank pressure.	
Semi-Annual			
		Remove and inspect ignition electrodes & UV scanner; replace if pitted.	
		Meg-ohm test burner-motor windings; tighten control-panel terminals.	
		Verify all pressure/temperature gauges against a calibrated standard.	
Annual / Out-of-Service			
		Drain, lock-out, open manways; inspect tubes, drums, refractory.	
		Hydro-pressure-test boiler and external piping.	
		Remove, test, or replace safety valves; file certificates.	
		Burner teardown: replace nozzle/electrodes, clean blower wheel.	
		Re-calibrate transmitters, flame-safeguard, and limit switches.	
		Review the year's logs to refine the PM program.	