NIPSCO Energy Efficiency

Boiler Tune-Up Checklist

Residential Energy Efficiency Programs

DATE OF SERVICE _____ TECHNICIAN _____

CUSTOMER NAME _____

SERVICE ADDRESS _____

COMPANY _____ PHONE # _____

COMPANY ADDRESS _____

EQUIPMENT INFORMATION

MANUFACTURER _____

MODEL NUMBER _____ SIZE (BTUh) _____

EXISTING CONDITION:

☐ EXCELLENT ☐ FAIR ☐ GOOD ☐ POOR

	BOILER TUNE-UP CHECKLIST	NOTES/RESULTS
☐	Inspect, test and calibrate thermostat.	
☐	Check boiler unit is set firm & level, with minimum clearance surrounding unit.	
☐	Inspect, test and calibrate all controls, gauges, and safety mechanisms.	
☐	Inspect gas line and connections for possible leaks, proper pitch.	
☐	Inspect the system controlling the air-to-fuel ratio and ensure that it is correctly calibrated and functioning properly.	
☐	At each operating position of the combustion control system, measure & record the flame pattern, flue gas temperature, and the concentrations of carbon monoxide (CO) and oxygen (and NOx, if appropriate) in the effluent stream.	
☐	Make appropriate adjustments to the combustion system to achieve the desired combustion characteristics (i.e., concentrations of CO, oxygen, and NOx, if appropriate, in the effluent stream).	
☐	After adjustments, and at each operating position of the combustion control system, measure & record the flame pattern, flue gas temperature, and the concentrations of carbon monoxide (CO) and oxygen (and NOx, if appropriate, in the effluent stream).	
☐	Remove burners and pilot assembly, clean. Check thermocouple.	
☐	Clean flame sensor and ignition rod.	
☐	Inspect condensate drain line and trap for blockages, clean pan, flush & treat with algaecide solution.	
☐	Perform a visual inspection of the heat exchanger for excessive rust, leaks, holes, or blockages. Clean with brush and flush to ensure channels are clear.	
☐	Check refractory lining for damages or coming into contact with condensate.	
☐	Inspect all gaskets for leaks.	
☐	Test and inspect electrical components, check for exposed wiring, rodent or insect damage, burned or pitted contacts, tighten connections.	
☐	Test and inspect electrical safety disconnect for proper operation, proper rating, and safe installation.	
☐	Inspect swirl plate and check for plastic for deterioration or excessive noise.	
☐	Inspect expansion tank proper size and operation.	
☐	Clean and rebuild low water cut-off.	
☐	Inspect service valves, relief valves, and any zone valves for proper operation.	
☐	Verify any freeze protection levels.	
☐	Check for backflow device.	
☐	Inspect pumps. Measure amp draw.	
☐	Lubricate bearings assembly.	
☐	Inspect condensate drain line and trap for blockages, clean pan, flush & treat with algaecide solution.	
☐	Inspect flue pipe for possible leaks, proper pitch, deterioration, and measure draft pressure.	
☐	Recalibrate all controls.	
☐	Measure and record boiler pressure and temperature.	

TECHNICIAN SIGNATURE

CUSTOMER SIGNATURE

Questions? Call TRC at **1-800-721-7385** or visit **NIPSCO.com/Rebates.**

NIPSCO's energy efficiency programs are administered by TRC, a third-party implementation specialist that helps homes and businesses save energy.