



Fuels Safety Program	Ref. No.: FS-270-23 R1
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Subject: Dangers of Operating Appliances on the Wrong Fuel
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The Technical Standards and Safety Authority (TSSA) recently investigated an incident involving a fatality where a wall-hung combination heating boiler set up for natural gas was operated on propane. No appliance should ever be operated on a fuel for which it has not been set up and properly commissioned. This leads to incomplete combustion and possible production of high levels of carbon monoxide (CO). This incident involved a high-input appliance with a small heat exchanger. The result was failure or rupture of the heat exchanger, high production of CO (in excess of 60,000 PPM) and the release of flue products into the dwelling space.

This advisory is to remind ***all fuels technicians and contractors*** that:

- appliances can only be operated on the fuel for which they have been approved and set up; and
- all appliances shall be installed and commissioned in accordance with the national installation code adopted in Ontario and the manufacturer's installation instructions.

Note: Only fuels appliances with an approved manufacturer's conversion kit and approved installation instructions are permitted to be converted from one fuel to another.