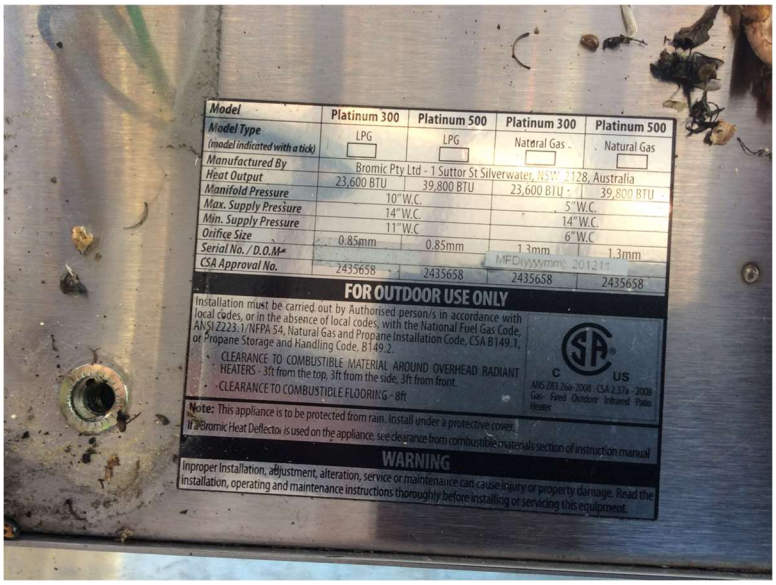
Incident Summary #II-996167-2020 (#16909) (FINAL)

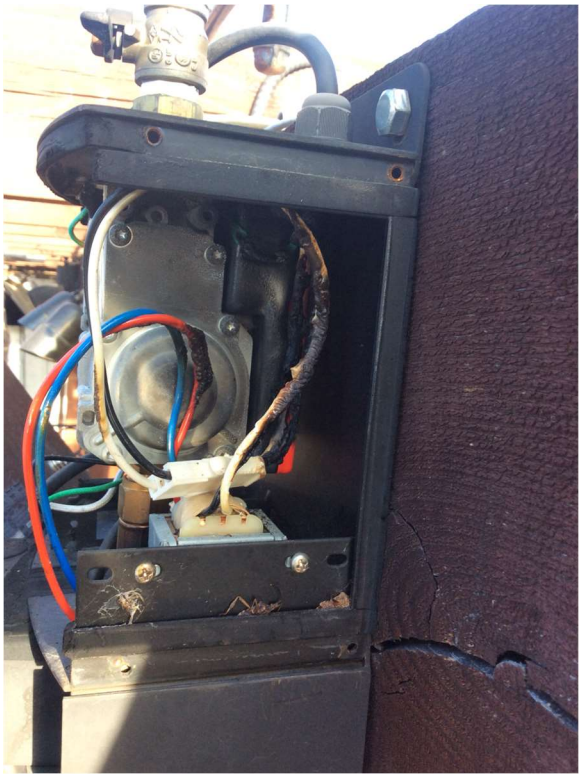
SUPPORTING INFORMATION	Incident Date		March 19, 2020
	Location		Summerland
	Regulated industry sector		Gas - Natural gas system
	Impact – Injury	Qty injuries	0
		Injury description	NA
		Injury rating	None
	Impact – Damage	Damage description	Gas hose between gas valve and burner cracked causing a gas leak which ignited and burnt the control wiring and ignition module for a radiant heater.
		Damage rating	Minor
	Incident rating		Minor
	Incident overview		Radiant heater caught fire due to a gas leak. A gas hose between the gas valve and burner was installed with a sharp 90 degree bend at the gas valve end. The strain on the hose cracked the hose causing a gas leak which ignited and burnt the control wiring and ignition module.
INVESTIGATION CONCLUSIONS	Site, system and components		The gas hose is designed to supply gas from the gas control valve to the burner of the radiant heater.
	Failure scenario(s)		The strain on the backside of the gas hose where the sharp bend was located caused the hose to perforate and leak gas which was ignited by the burner. The burning gas caused a hole to form in the gas hose which increased the amount of gas that was burning.
	Facts and evidence		The type 1 gas hose which connects the gas valve to the burner was installed at the factory with a sharp bend in it. The stress on the hose over time caused it to perforate and leak gas which ignited and started a small fire.
	Causes and contributing factors		The incident was very likely caused by the manufacturer installing the gas supply hose in a manner that formed a sharp 90-degree bend. The stress on the hose because of the sharp bend caused the hose to crack allowing gas to leak which ignited, burning the hose and control wiring near the gas valve.

Photos or diagrams (if necessary)

Damaged gas hose



Rating Plate



Burnt wiring by gas valve

Gas hose connected to burner

Factory installed hose with sharp bend that caused the damage to the gas hose.