

## Incident Summary (Reference # 5616737)

SUPPORTING INFORMATION	Incident Date		April 7,2017	
	Location		Quathiaski Cove	
	Regulated industry sector		Gas	
	Impact	Injury	Qty injuries	None
			Injury description	N/A
			Injury rating	None
	Damage	Damage description	Minimal damage to wiring in the immediate vicinity of the fire	
			Damage rating	Minor
	Incident rating		Minor	
Incident overview		Over time, the low voltage control wiring for the gas valve had been pinching between the Corrugated Stainless Steel Tubing ( CSST) gas line and the shell of the stove cabinet. When it finally broke through the wiring insulation, there was an electrical arch to ground, causing the gas to ignite.		

INVESTIGATION CONCLUSIONS	Site, system and components		The electrical wiring and oven control gas line are routed through the same channel in the stove cabinet. When the oven is turned on, there is an electrical current sent to the ignition module and in turn opening the gas valve. When the oven reaches temperature, the valve then shuts off. This cycle is repeated until the oven is turned off.	
	Failure scenario(s)		The occupant was using the stove to cook dinner. When he turned on the oven, he heard a pop down by his feet, when he looked down, he saw flames coming from under the stove. He ran outside and turned off the gas at the propane tank.	
	Facts and evidence		Evidence shows that the wiring was being pinched between the CSST gas tubing to the oven control valve, and the sharp metal edge of the stainless steel side panel of the stove(see photos). Over time, the insulation on the wiring wore through to the energized conductor and when it arched to ground, it blew a hole in the tubing and ignited the gas, starting the fire.	
	Causes and contributing factors		Contributing factors were likely the sharp metal edge of the side panel of the stove wearing through the insulation on the wiring from being pinched against the CSST tubing.	

Photos or diagrams (if necessary)









