

Burner drawer located below oven.

## Incident Summary (Reference #5610772)

SUPPORTING INFORMATION	Incident Date		January 20 <sup>th</sup> 2017	
	Location		Chemainus B.C	
	Regulated industry sector		Commercial	
	Impact	Injury	Qty injuries	None
			None	None
			Injury rating	None
	Damage	Damage description	Total loss of upper oven on Garland twin stack Pizza oven	
			Damage rating	Severe
	Incident rating		Minor	
	Incident overview		Catastrophic Spalling of refractory material lining the oven .This was a used oven with a newly installed hearth plate.(refractory)	
INVESTIGATION CONCLUSIONS	Site, system and components		Cooking establishment with oven that contained tube type burners located below the heating surface without direct communication with the oven. Gas flame impinges on metal plate covered with a refractory hearth plate located on the bottom of the oven. Hearth plate comprised of compressed silica containing material.	
	Failure scenario(s)		Catastrophic failure of the refractory material due to rapid heating of the new refractory releasing trapped moisture which flashed to steam. This resulted in both over pressure and mechanical damage to the unit.	
	Facts and evidence		Distortion of the oven portion protruding into the burner drawer and bowing up the top of the cabinet. Burner drawer and flue passages do not communicate directly with oven compartment. Total destruction of all oven lining material.	
	Causes and contributing factors		Bake in procedure of new refractory may not have been performed as per manufactures instructions requiring a maximum temperature of 300 f for a minimum of 5 hours.	

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