

## Incident Summary (Reference #5610668)

SUPPORTING INFORMATION	Incident Date		January 09, 2017	
	Location		Prince George	
	Regulated industry sector		Boiler and Pressure Vessel system	
	Impact	Injury	Qty injuries	Zero
			Injury description	N/A
			Injury rating	None
	Damage	Damage	Damage description	Longitudinal weld failed on Steam Distribution box of shell and tube heat exchanger.
			Damage rating	Moderate
Incident rating		Moderate		
Incident overview		The longitudinal weld failed allowing 65# steam to escape through the ruptured weld.		
INVESTIGATION CONCLUSIONS	Site, system and components		A 65# Steam line connects to the top of the Steam Distribution Box and injects steam into the shell side of the heat exchanger.	
	Failure scenario(s)		There was an over pressure event that occurred in the 65# steam line connected to the heat exchanger. This event over pressured the heat exchanger and the longitudinal weld failed because it was not full penetration as required by the original drawing. The steam distribution box had recently been repaired. The cause of the over pressure event is being investigated by the Owner's Operations group.	
	Facts and evidence		Visual inspection was performed of the ruptured longitudinal weld and the weld metal was only partial penetration as documented by photo.	
	Causes and contributing factors		It is likely that the weld failed because it was not full penetration.	

See attached photo package.