

Incident Summary (Reference #5263) (Final)

SUPPORTING INFORMATION	Incident Date	January 25, 2018	
	Location	Dawson Creek	
	Regulated industry sector	Boiler and Pressure Vessel	
	Impact	Qty injuries	None
		Injury description	None
		Injury rating	None
	Damage	Damage description	An outlet nozzle weld on a suction scrubber (A vertical pressure vessel) cracked.
		Damage rating	Moderate
	Incident rating	Moderate	
Incident overview	Nozzle weld failure on 1 st Stage Suction scrubber(A vertical pressure vessel) resulting in gas leaking through weld. Gas detection within the building alerted operator and compressor was shut down and depressurized.		
INVESTIGATION CONCLUSIONS	Site, system and components	This site is a remote industrial gas facility. Under normal circumstances, this type of vessel removes traces of liquid droplets from gas streams to protect downstream equipment from damage and failure.	
	Failure scenario(s)	-Vibration transmitted from the equipment associated with this vessel. - Weight of the piping assembly connected to equipment adding to outlet nozzle stress.	
	Facts and evidence	-Equipment connected to this scrubber transmits vibration to the scrubber. - The connected piping bears on the outlet nozzle - It is not independently supported..	
	Causes and contributing factors	Vibration and mechanical design may have caused the nozzle weld failure.	

Photos or diagrams (if necessary)

