

Prepared By:	Simon Young		Copy No.:	1		
Title:	Technical Author					
			I	I		
Reviewed by:	Carl Edwards		Authorised by:	Malcolm Coa	Malcolm Coates	
Title:	tle: HSQE Advisor		Title:	HSQE Mana	HSQE Manager	
				ſ		
Date of Issue:	16/08/2019		Review Date:	N/A	N/A	
Reference No.:	Tube Cleaning In Shell and Tube Heat Exchangers		Version No.:	01	01	
Supersedes:	Tube Cleaning In Heat Exchangers	Shell and Tube	Version No.:	А	A	
Amendment	Section No.	Page No.	Paragraph No.	Date	Amended By	
No.						





Risk Element

- Risk of personnel injury from use of tube cleaning machinery;
- Risk of dust to operator's eyes if tubes brushed dry.

Precautions to Eliminate/Reduce Risk

- Clear area of non-operational personnel from immediate vicinity and erect barriers;
- Operators wear correct PPE.

Safe Working Method

With the water side previously drained down and the end covers removed by others proceed as follows:

- Visually inspect tube cleaning machine to ensure it is in safe working order;
- If working wet: connect to water supply and make arrangements for collection of drain water;
- Screw brushes onto cleaning rods;
- Insert brush into tube and start machine to turn brush and move it forward into the tube;
- Continue until brush reaches far end of tube;
- If both ends covers are removed collect scale, etc. from far end;
- Withdraw brush and rod and repeat for other tubes until all have been cleaned;
- Collect all waste and leave area clean.