

Worksheet

HAZOP-PC 1.00

Company: DOW CHEMICAL CO.
 Process: HDPE - POLY B

Node: 4
 Page: 1

Node: 4 DR-2006 Outlet to Transfer System					
Parameter: Flow			Intention: 33,000 Lb / Hr		
GUIDEWORD	DEVIATION	POSSIBLE CAUSES	CONSEQUENCES	RECOMMENDATIONS	BY
No	No Flow	Rotary valve failure. Polymer plug.	Plug dryer. Powder entrainment to Sorbathene. Train shutdown.	Alarm rotary feeder shutdown. Trip feed to DR-2007. Monitor amps on motor (MDR-2008)	KW KW *
Reverse	Reverse Flow	Excessive wear. Incorrect clearances.	Plug dryer. See NODE 4.	Evaluate system location of blower control. Two rotary feeder valves installed	KW *

Worksheet

HAZOP-PC 1.00

Company: DOW CHEMICAL CO.
Process: HDPE - POLY B

Node: 4
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Node: 4 DR-2006 Outlet to Transfer System					
Parameter: Temperature			Intention: 80 - 90 Deg. C		
GUIDEWORD	DEVIATION	POSSIBLE CAUSES	CONSEQUENCES	RECOMMENDATIONS	BY
Less	Lower Temp	Loss of heat to the jacket. Too high feed rate. Loss of Sorbathene system Loss of nitrogen to DR-2008. Loss of water to the jacket. Fouled jacket.	High solvent level in the powder. High emissions. High hydrocarbon levels in the check hopper.	HAZOP water system. Limit flow to DR-2007 / See Node #11. HAZOP Sorbathene.	GC * GC

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