

Node: 8 D-2004 TO R-2001 THROUGH C-2001A rameter: Flow Intention: 1200 NOMINAL ACFM					
GUIDEWORD	DEVIATION	POSSIBLE CAUSES	CONSEQUENCES	RECOMMENDATIONS	BY
No	No Flow	COMPRESSOR SHUT DOWN CV FAILURE LINE PLUGGED/ BLOCKED CHECK VALVE INSTALLED BACKWARDS	NO REACTOR COOLING PROD. QUALITY TRAIN SHUTDOWN POLYMER FUSED	ADD N2 LINE TO PURGE SPARGER ON COMP. TRIP SEE NODE 4 HIGHER TEMPERATURE WRITE COMMISIONING PROCEDURE/CHECK LIST	GC RF RF
More	More Flow	NONE	NONE	NONE	
Less	Less Flow	SEE NO FLOW THIS NODE PURGE LINES TO FLARE OPEN WRONG SETPOINT ONFLOW CONTROLLER	SEE NO FLOW THIS NODE	SEE NO FLOW THIS MODE	RF/ GC

Node: 8 D-2004 TO R-2001 THROUGH C-2001A					
Parameter: Temperature			Intention: 45 C SUCT./51 C DISCH.		
GUIDEWORD	DEVIATION	POSSIBLE CAUSES	CONSEQUENCES	RECOMMENDATIONS	BY
More	Higher Temp	COOLING LOSS ON OVERHEAD EXCH. INSTRUMENTATION FAILURE. EXCESS CATALYST. IMPROPER SETPOINT	REACTOR TEMP CONTROL PROBLEM	REDUNDANT TEMP. MEASUREMENTS	GC
			OVERLOAD COMPRESS. LUMP FORMATION IN REACTOR.	INSTALL DOWNSIZED COMPRESSOR.	GC
			ACTIVATE KILL SYSTEM.	EVALUATE LIMITING CATALYST FLOW	GC
			PRODUCT QUALITY	REFER TO NODE 4	GC
Less	Lower Temp	INSTRUMENTATION FAILURE KILL SYSTEM FAILURE. LOSS OF CATALYST. SYSTEM IMPURITIES	PRODUCT QUALITY	REFER TO E-2001 CONTROLS ON NODE 6	GC
				SEE NODE 4 FOR INSTRUMENTATION COMMENTS.	GC
				EVALUATE ON LINE ANALYZERS	GC

Node: 8 D-2004 TO R-2001 THROUGH C-2001A					
Parameter: Pressure			Intention: 187 PSIG SUCT/202 PSIG DISCH		
GUIDEWORD	DEVIATION	POSSIBLE CAUSES	CONSEQUENCES	RECOMMENDATIONS	BY
More	Higher Pressure	LOSS OF REACTION. ETHYLENE VALVE FAILURE. BYPASS VALVE FAILURE. VAPOR CONTROL VALVE FAILURE.	SAFETY VALVE RELIEF. PRODUCT QUALITY. COMPRESSOR OVER LOAD AND TRIP	EVALUATE CLOSING ETHYLENE VALVE TRIP ON HIGH PRESSURE.	GC
				EVALUATE COMPRESSOR TRIP ON HIGH PRESSURE AND LOSS OF SUCTION FLOW.	GC
				INSTALL SUCTION FLOW METER.	GC
				EVALUATE TOTAL GAS FLOW MEASUREMENT.	GC
Less	Lower Pressure			REFER TO MORE PRESSURE RECOMMENDATIONS	GC

Company: DOW CHEMICAL
Process: POLY-B

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Node: 8 D-2004 TO R-2001 THROUGH C-2001A					
Parameter: Composition			Intention: PRODUCT DEPENDENT MOL. WT.		
GUIDEWORD	DEVIATION	POSSIBLE CAUSES	CONSEQUENCES	RECOMMENDATIONS	BY

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