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Node: 21 DUMP LINE REMOVAL PROCEDURE					
Parameter: Maintenance			Intention: POSITIVE LINE ID		
GUIDEWORD	DEVIATION	POSSIBLE CAUSES	CONSEQUENCES	RECOMMENDATIONS	BY
No	Not ID'd	POINT TO WRONG LINE MARK WRONG LINE IGNORANCE EAST VS WEST LINE CRAFT REASSIGNED POOR RELIEF INEXPERIENCE WRONG LINE LABEL POOR TRAINING RUSHED INATTENTION	SPILL PERSONAL INJURY EQUIPMENT DAMAGE DEVIATION IN OPERATION	WRITTEN INSTRUCTIONS PROPER FIELD LABELS ON SITE INSPECTION RE-EVALUATE SAFE WORK PERMIT USE BY OPERATIONS WRITTEN RELIEF OPERATORS/CRAFTS MAN TOUCH LINE DEVELOPE PROCEDURE TO POSSITIVELY ID LINE AT ALL ENDS	RF RF RF RF RF

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Company: DOW CHEMICAL
Process: POLY-B

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Node: 21 DUMP LINE REMOVAL PROCEDURE					
Parameter: RED TAG VALVES			Intention: SYSTEM ISOLATION		
GUIDEWORD	DEVIATION	POSSIBLE CAUSES	CONSEQUENCES	RECOMMENDATIONS	BY
No	No RED TAG VALVES				

Node: 21 DUMP LINE REMOVAL PROCEDURE					
Parameter: RED TAG LINE			Intention: POSITIVE LINE ISOLATION		
GUIDEWORD	DEVIATION	POSSIBLE CAUSES	CONSEQUENCES	RECOMMENDATIONS	BY
No	No RED TAG LINE	IN A HURRY	SAME AS MAIN. LINE NOT ID'D		
Less	Less RED TAG LINE	PROCEDURE OUT OF DATE COMPUTER LIST NOT UP TO DATE FORGET TO ENTER ONE FROM LIST WRONG TRAIN SAME AS MAIN. LINE NOT ID'D LOST TAG ON WAY TO FIELD	SAME AS MAIN. LINE NOT ID'D	TAG IN ORDER AUDIT AND UPDATE COMPUTER LIST UPDATE PROCEDURE TAKE COPY OF RED TAG MASTER TO FIELD TO CHECK REFERENCE PROCEDURE TO COMPUTER TAG LIST VISUALLY INSPECT FOR UNDOCUMENTED VALVES	RF RF RF RF RF
More	More RED TAG LINE	SEE LESS RED TAGGING	UNWANTED SHUTDOWN CAN'T BLEED LINE LINE NOT TOTALLY DEPRESSURED	SAME AS LESS RED TAGGING	RF
AsWellAs	AsWellAs RED TAG LINE DO STEP D		SAME AS NOT RED TAGGING	SPECIFY SEQUENCE	RF

Worksheet

HAZOP-PC 1.00

Company: DOW CHEMICAL
Process: POLY-B

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Node: 21 DUMP LINE REMOVAL PROCEDURE				
Parameter: DISCONNECT AIR LINE		Intention: SAFELY REMOVE DUNP LINE		
GUIDEWORD	DEVIATION	POSSIBLE CAUSES	CONSEQUENCES	RECOMMENDATIONS BY
No	No DISCONNEC T AIR LINE		DAMAGE AIR HEADER PERSONAL INJURY OPERATIONAL PROBLEMS	EXPLAIN REASON FOR DISCONNECTING AIR LINE IN PROCEDURE STATE IN SEPARATE STEP
				RF
				RF

Worksheet

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Company: DOW CHEMICAL
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Node: 21 DUMP LINE REMOVAL PROCEDURE					
Parameter: Relief			Intention: REMOVE HAZARDOUS CONTENTS		
GUIDEWORD	DEVIATION	POSSIBLE CAUSES	CONSEQUENCES	RECOMMENDATIONS	BY
No	No Relief	NOT FOLLOWING PROCEDURES INADEQUATE TRAINING DRAIN LINE/LINE PLUGGED LOW SPOT IN LINE VENT LINE CLOSED/ PLUGGED	SPILL POTENTIAL PERSONAL INJURY	REVISE PROCEDURE TO SAFELY REMOVE LINE CONTENTS HAZOP NEW PROCEDURE	RF
Part of	Part of Relief CLOSE SAMPLE VALVES	LEAKING VALVE	LINE REPRESSURES	PROCEDURE TO TAG SAMPLE VALVES OPEN	RF

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Worksheet

HAZOP-PC 1.00

Company: DOW CHEMICAL
Process: POLY-B

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Node: 21 DUMP LINE REMOVAL PROCEDURE					
Parameter: DISCONNECT FLANGES			Intention: VERIFY NO TRAPPED CONTENTS		
GUIDEWORD	DEVIATION	POSSIBLE CAUSES	CONSEQUENCES	RECOMMENDATIONS	BY
No	No	LINE ROUTING	UNCONTROLLED SPILL	EVALUATE STEP	RF
	DISCONNECT	ALLOWS TRAPPED	PERSONAL INJURY	WORDING TO	
	T FLANGES	CONTENTS		ELIMINATE	
		POLY PLUG IN LINE		ABIGUITIES	
		BROKE FLNGE ON		EVALUATE	RF
		WRONG SIDE OF		RECOMMENDED	
		VALVE		PERSONAL	
				PROTECTIVE	
				EQUIPMENT	
				ADD A STEP TO	RF
				DISCONNECT	
				ELECTRICAL	
				TRACING.	
				REFERENCE LINE	
				AND EQUIPMENT	
				OPENING POLICY ON	
				DUMP LINE PULL	
				PROCEDURE	