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Open Documents

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Administration

Assumptions

Team Members

Sessions

Drawings / Reference

Revalidation

HAZOP

HAZOP Recommendations

LOPA

LOPA Recommendations

Additional Reports

Analysis

Packing List

Data Check

Sphera ARA

Settings

Template Revision Information

Complete HAZOP Worksheet

Complete LOPA Worksheet

HAZOP Risk Matrix

LOPA Criteria

HAZOP & LOPA Report

Management Summary Report

Active Libraries

PHA-Pro HAZOP Library

PHA-Pro Knowledge Base Lib

PHA-Pro LOPA Library

PHA-Pro Management of Change

PHA-Pro Risk Library

PHA-Pro Risk Quality Review

PHA-Pro Risk Standards & Protocol

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Team Members

Sessions

Drawings / Reference

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LOPA Recommendations

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Packing List

Data Check

Sphera ARA

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PHA-Pro LOPA Library

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PHA-Pro Risk Library

PHA-Pro Risk Quality Review

PHA-Pro Risk Standards & Protocol

PHA-Pro Process Safety Information

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What If Library

Complete HAZOP Worksheet

Node	Deviations	Causes	Consequences	Cons				Inherent Risk				Safeguards	Current Risk			
				Cat	S	L	RR	S	L	RR	S		L	RR		
1. Feed/Bottom Exchanger - Including Light End Stripper	1. Low or No Flow	1. Flow control valve FV-101 on feed line from feed drum V-101 to feed/bottom exchanger EX-101 malfunction closed.	1. Loss of Feed to the C-101 Stripper	PER	4	4	A	1. LUC-119: Level control will close the level valve LV-119 on low level at light end stripper C-101. 2. LAL-121: Low level alarm to DCS at light end stripper C-101. 3. LSL-121: Low level switch interlock the bottom pump P-102/102S	4	2	1	3				
				ENV	1	4	C						1	3		
				AST	1	4	C									
				BUI		1	4						C			
			2. No feed to light end stripper C-101, with potential low level in light end stripper C-101. Possible bottom pump P-102/102S cavitation, leading to pump damage; potential ignition and fire scenario; may result in personnel injury, equipment damage and production loss. LOPA Scenario - 1.1	PER	4	4	A	4. LUC-107: Low level in reflux drum will cause LV-107 to close to maintain the level in reflux drum, and reflux circulation in light end stripper C-101. 5. LSL-116: Low level switch at reflux drum V-102 will interlock the P-101/101S reflux pump	4	2	1	3				
	ENV	1	4	C												
	AST	1	4	C												
	BUI		1	4	C											
			3. Due to loss of feed to light end stripper C-101, there is a potential of low level at V-102 reflux drum, which may lead to possible dry running of the reflux pump P-101/P-101S. The pump could be damaged, with potential for a release of hydrocarbon from damaged pump seals. Potential ignition and fire scenario which may result in personnel injury, equipment damage and production loss.	PER	4	4	A	4. LUC-107: Low level in reflux drum will cause LV-107 to close to maintain the level in reflux drum, and reflux circulation in light end stripper C-101. 5. LSL-116: Low level switch at reflux drum V-102 will interlock the P-101/101S reflux pump	4	2	1	3				
	ENV	1	4	C												
	AST	1	4	C												
	BUI		1	4	C											
			4. Knock-On Effect: If LUC-107 loop works as designed in	PER	1	4	C		1	3						

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LOPA Recommendations

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Data Check

Sphera ARA

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PHA-Pro Risk Quality Review

PHA-Pro Risk Standards & Protocol

PHA-Pro Process Safety Information

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Administration

Assumptions

Team Members

Sessions

Drawings / Reference

Revalidation

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HAZOP Recommendations

LOPA

LOPA Recommendations

Additional Reports

Analysis

Packing List

Data Check

Sphera ARA

Settings

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PHA-Pro Risk Library

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				ENV	1	4	C						1	3		
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	AST	1	4	C												
	BUI		1	4	C											
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Assumptions

Team Members

Sessions

Drawings / Reference

Revalidation

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Job Safety Analysis Library

Knowledge Base Library

LOPA Library

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PHA Library

PHA Quality Review Library

PHA Revolutions Steps Library

PHA Standards & Protocol Lib

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Administration

Assumptions

Team Members

Sessions

Drawings / Reference

Revalidation

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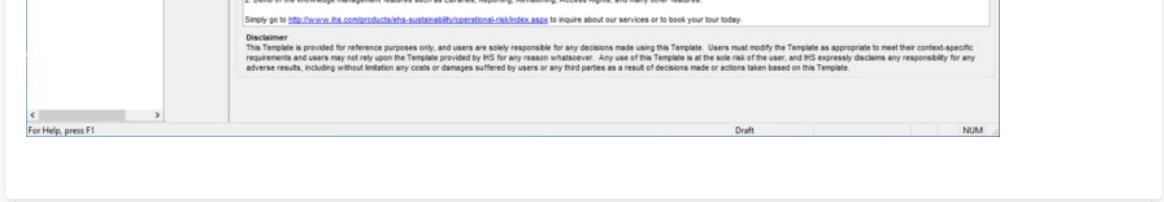
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