HAZOP STUDY WORKSHEET

Project:	t2	**NODE**	**node2**
Design Intent :		**System**	
Design Conditions:		**HAZOP Boundary**	
Operating Conditions:			
PFD, PID No. :		**Date**	

Guide Word	Deviation	Causes	Consequences	Unmitigated Risk Assessment			Major Accident Event	Existing Safeguards	Mitigated Risk Assessment Matrix			Action No	Recommendations	Action by
				S	L	R	(Y/N)		S	L	R			
Flow	1.4 Reverse Flow	c1		4	3	H		5400	3	3	M		r1	TOP CMDP-Jaruwat P
Flow	1.5 MisdirectedFlow	c2		4	2	M		5400	3	2	L		r2	TOP CMDP-Jaruwat P
Flow	1.3 Less/Low Flow	c3												TOP CMDP-Jaruwat P
Flow	1.1 No Flow	c4												TOP CMDP-Jaruwat P
Flow	1.2 More/HighFlow	c5												TOP CMDP-Jaruwat P
Pressure	2.2 Less/Low Pressu	c6												TOP CMDP-Jaruwat P
Pressure	2.1 More/High Press	c7												TOP CMDP-Jaruwat P

Note:

HAZOP STUDY WORKSHEET

Project:	t2	**NODE**	**node1**
Design Intent :		**System**	
Design Conditions:		**HAZOP Boundary**	
Operating Conditions:			
PFD, PID No. :		**Date**	

Guide Word	Deviation	Causes	Consequences	Unmitigated Risk Assessment			Major Accident Event	Existing Safeguards	Mitigated Risk Assessment Matrix			Action No	Recommendations	Action by
				S	L	R	(Y/N)		S	L	R			
Flow	1.4 Reverse Flow	x1		4	4	H	Y	ex1	4	3	H		r1	Dungrat (TOP-XX)
Flow	1.5 MisdirectedFlow	x2	c1					41					r2	Dungrat (TOP-XX)
Flow	1.3 Less/Low Flow	x3	c2											Dungrat (TOP-XX)
Flow	1.1 No Flow	x4	c3											Dungrat (TOP-XX)
Flow	1.2 More/HighFlow	x5	c4											Dungrat (TOP-XX)
Pressure	2.2 Less/Low Pressu	x6												Dungrat (TOP-XX)
Pressure	2.1 More/High Press	x7												Dungrat (TOP-XX)

Note: