

Recording Sheet

This attachment shows an example of a HAZOP Study Recording Sheet

Client :	Issue :	
Project :	Issue Date :	CI = Client
Unit :	Job No :	Li = Licensor
System :	Client Project No :	Co = Contractor

DEVIATION	POSSIBLE CAUSE(S)	POTENTIAL CONSEQUENCE(S)	EXISTING SAFEGUARD(S)	RECOMMENDED ACTION(S)	ITEM NO	BY	ACTUAL IMPLEMENTATION
more flow	fail open of control valve 1-FV-005	off specification product	none	add high flow alarm in inhibitor dosing line	1	Co	as per recommendation
less flow	lower pressure in vessel MS-107	less flow in product line	low flow alarm in product line	none, as pressure in MS-107 varies little		---	
no flow	inadvertent closure of block valve	flow in product line stops	none	none	2	Co	
reverse flow	failure of product pump PP-113 A/B	backflow from storage tank MF-103 to unit	check valve in PP-113 A/B discharges	none		---	
high temp.	too low cooling flow to exchanger TT-105	polymerization of product in storage tank MF-103	none	lock TT-105 cooling water block valves	3	Co	chain lock valves (not castellock)
low temp.	failure of line steam tracing	lower product temperature	none	add note in operating manual	4	CI	as per recommendation
high press.	inadvertent closure of block valve	heatup of the line and contents by solar radiation	none	add thermal relief valve	5	Co	RV to discharge to
low press.	see less flow						
high level	maloperation of MS-107 level controller	possible overfilling of vessel MS-107	high level alarm on MS-107	none, current safeguard is considered sufficient		---	
low level	maloperation of MS-107 level controller	damage of product pump PP-113 A/B	low level alarm on MS-107	check suitability of various types of pumps	6	Co	select pump with lowest NPSH required