		Legend			Relevant Tag	SOV-201	FIC-202	SOV-202	FIC-207	PIC-201	FIC-214	SOV-204	SOV-203	FIC-209	TIC-213	FCV-201	TIC-212	PIC-207	FIC-208	PIC-206	LIC-203	TIC-207	LIC-202	SOV-205	SOV-206	SOV-207	SOV-209	SOV-208
Open = O			<u> </u>	Re	so	Œ		Ē	ā	Ē	_	S	Œ	F	FC	F			Ы	=	F	=	S	So		_	-	
Fully open = FO Close = C			Effect		lou	201	to F201	a	ssure	01	Reactor R201 gas bleed	liquid	outlet	H201	to R201	202	Pressure reduction valve	H203	S204	from	ę	from	Ę	S203	5203	gas	liquid	
Stop = S			#		Toluene in propanol feed to P201	m 1		Hydrogen purge	pressu	Hydrogen fan F201	gas b	Ϊ́Ε	o T	e. T	to R	Electrical power H202	io	5	te S		Saturated steam to	lε	n fro	E 20		204	04	
Running = R				ion	in pr to P.	d pur	Hydrogen feed	gen p	drogen feed pre control valve	n fa	201 g	Reactor R201 bleed	R201	Electrical power	Cooling water	wod	duct	water	Vapour distillate	distillate S204	d st	Bottom strea H204	steam 1	Distillation column gas bleed	Distillation column	drum S bleed	rum S204 l bleed	
Full speed = FS				escription	ene	feed to R	gen	drog	gen	roge	Jr R2	ig q	ţ	ical	w Br	ical	- e	> №	i di	d dis	rate H	l m	led s	tion co gas blo	tion	ے ا		
				Desc	olue f	pinbi-	dro	£	drog	Туд	actc	Seac	Reactor	ectr	oolir	ectr	Inss	Cooling	apor	Liquid	Satu	otto	Cooled	tilla	tilla	Reflux	Reflux dr	
Interlock	Cause	Detection	Setpoint	Alar	m	_	Ľ	f		主		Re	_		⊞	ŏ	Ш	Pre	ŭ	>	_	,			Dis	Dis	œ	. Re
1	Cooling water flowrate to reactor LL	Cooling water flowrate to reactor R201 extremely low, FSLL-204 Cooling water temperature to	1411.6 L/h	FZALL-	-204	С	S	С	0	С	S	0	0	С	S	0	S	С	0	0	0	С	С	0	0	0	0	0
1	Cooling water temperature HH	reactor R201 extremely high, TSHH- 205	36°C	TZAHH	-205	С	s	С	0	С	s	0	0	С	s	0	S	С	0	0	0	С	С	0	0	0	0	0
2	Pump temperature HH	Pump P201 temperature extremely high, TSHH-206	64°C	TZAHH	-206	С	s	С	0	С	s	С	С	0	s	0	S	0	0	0	0	0	0	0	С	С	С	С
2	Liquid flowrate to pump LL	Liquid flowrate to pump P201 extremely low, FSLL-205	89 L/h	FZALL-	-205	С	S	С	0	С	S	С	С	0	S	0	S	0	0	0	0	0	0	0	С	С	С	С
1	Reactor temperature HH	Reactor R201 temperature extremely high, TSHH-204	80°C	TZAHH	-204	С	S	С	0	С	S	0	0	С	S	0	S	С	0	0	0	С	С	0	0	0	0	٥
1	Reactor pressure HH	high, PSHH-204	7 atm	PZAHH		С	S	С	0	С	S	0	0	С	S	0	s	С	0	0	0	С	С	0	0	0	0	٥
3	Reactor level HH	LSHH-201 Gas pressure to reactor R201	15cm	LZAHH		С	S	c	0	c	S	C	0	0	S	0	s	0	0	0	0	0	0	0	C	C	C	С
4	Gas pressure to reactor HH	extremely high, PSHH-205 Gas flowrate to reactor R201	7 atm	PZAHH		С	s	c	0	c	S	0	С	0	S	0	s	0	0	0	0	0	0	0	С	С	С	С
4	Gas flowrate to reactor HH	extremely high, FSHH-206 Cooling water flowrate to	28456 L/h	FZAHH	-206	С	S	С	0	С	S	0	C	0	S	0	S	0	0	0	0	0	0	0	C	C	С	С
1	Cooling water flowrate to condenser LL	condenser H203 extremely low, FSLL 210	2808 L/h	FZALL-	-210	С	S	С	0	С	S	0	0	С	S	0	S	С	0	0	0	С	С	0	0	0	0	٥
1	Temperature in cooling water HH	Cooling water temperature to I condenser H203 extremely high, TSHH-210	41°C	TZAHH	-210	С	S	С	0	с	s	0	0	С	s	0	S	С	0	0	0	С	С	0	0	0	0	o
5	Level in reflux drum HH	Tank S204 level extremely high, LSHH-204	40% above designed level	LZAHH	-204	0	R	0	0	0	R	С	С	0	R	0	0	0	0	0	FO	FO	FO	0	С	С	С	٥
1	Pressure in distillation column HH	extremely nigh, PSHH-208	3 atm	PZAHH	1-208	с	s	С	0	С	s	0	o	С	s	0	s	С	0	0	0	С	С	0	o	0	0	0
1	Temperature in distillation column HH	Distillation column S203 temperature extremely high, TSHH- 209	212°C	TZAHH	-209	С	S	С	0	С	s	0	0	С	s	0	S	С	0	0	0	С	С	0	0	0	0	0
6	Level in reboiler HH	Reboiler H204 level extremely high, LSHH-206	40% above designed level	LZAHH	-206	0	R	0	0	0	R	С	С	0	R	0	0	0	0	0	0	FO	FO	0	0	С	С	o
7	Level in reboiler LL	Reboiler H204 level extremely low, LSLL-207	40% below designed level	LZALL-	-207	0	R	0	0	0	R	С	С	0	R	0	0	0	0	0	0	0	С	0	С	С	С	С
8	Pressure in distillation column LL	Distillation column S203 pressure extremely low, PSLL-211	0.3 atm	PZALL-	-211	с	s	С	0	С	s	0	o	С	s	0	s	С	0	0	0	0	С	0	С	С	С	С
1	Gas temperature to R201 HH	Gas feed temperature extremely high, TSHH-214	80°C	TZAHH	-214	С	s	c	0	С	s	0	0	С	s	0	s	С	0	0	0	С	С	0	0	o	0	٥
1	Liquid temperature to R201 HH	high, TSHH-215	80°C	TZAHH	-215	С	s	С	0	С	s	0	0	С	s	0	s	С	0	0	0	С	С	0	0	0	0	0
9	Gas pressure to reactor LL	PSHH-213	7 atm	PZALL-	-213	0	R	0	0	FO	FS	С	С	0	R	0	0	0	0	0	0	0	0	0	С	С	С	С
1	Liquid pressure to reactor HH	Liquid feed pressure extremely high, PSHH-210 Recycle pressure extremely high,		PZAHH		С	S	С	0	С	S	0	0	С	S	0	S	С	0	0	0	С	С	0	0	0	0	0
1	Recycle pressure to reactor HH	PSHH-212	7 atm	PZAHH		С	S	С	0	С	S	0	0	С	S	0	S	С	0	0	0	С	С	0	0	0	0	٥
10	Recycle flowrate to reactor HH	FSHH-219	7933 L/h	FZAHH	-219	0	R	0	FO	0	R	С	С	0	R	0	0	0	0	0	0	0	0	0	С	С	С	С