Converter trip of RTQX2.L2

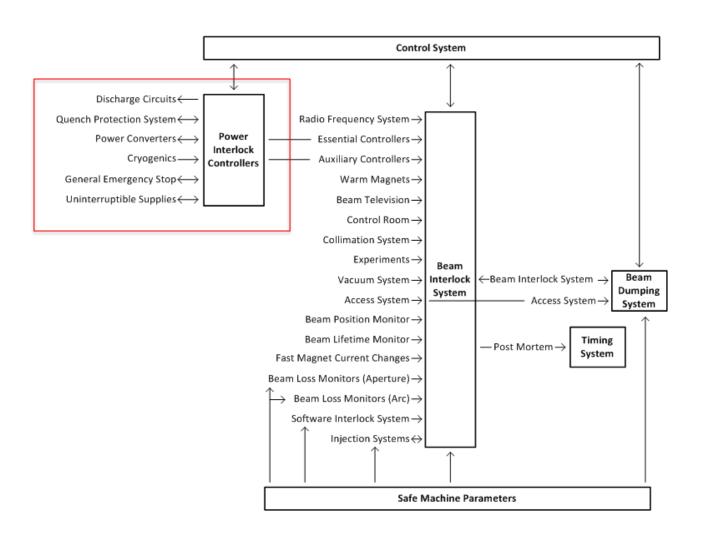
PM Event: 2012.06.15 15:54:55 CEST

Energy: 4TeV – Stable Beams

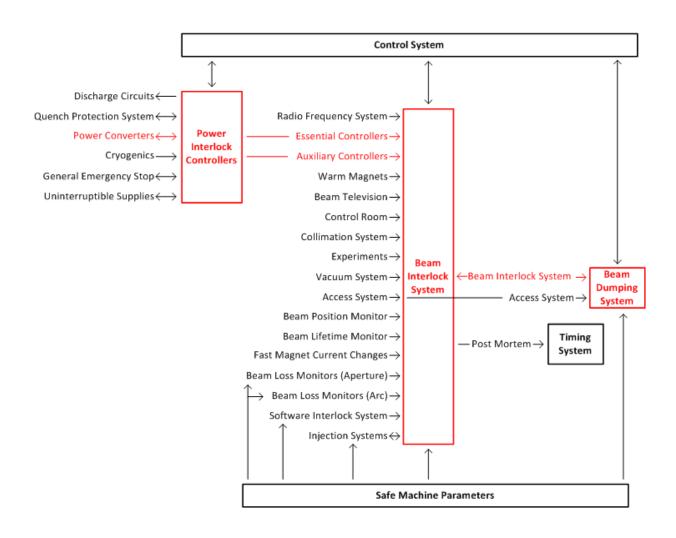
Fill Number: 2733

I. Romera - H. Thiesen

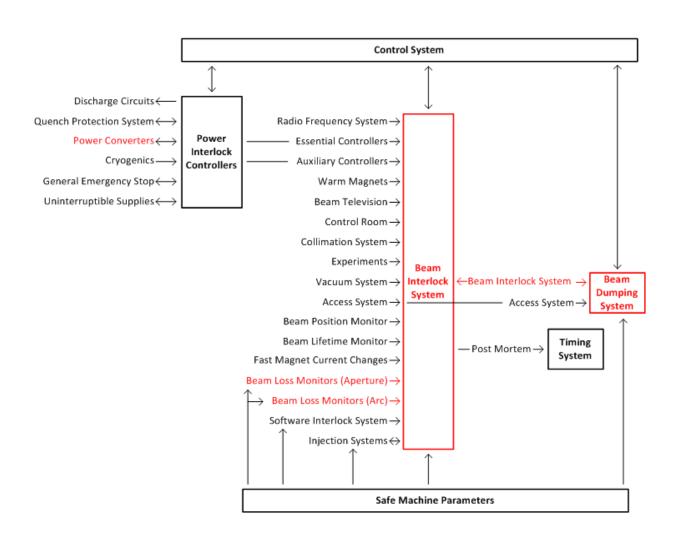
MPS in LHC



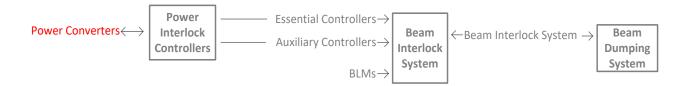
PC fault propagation to LBDS



PC trip "unseen" by the PIC

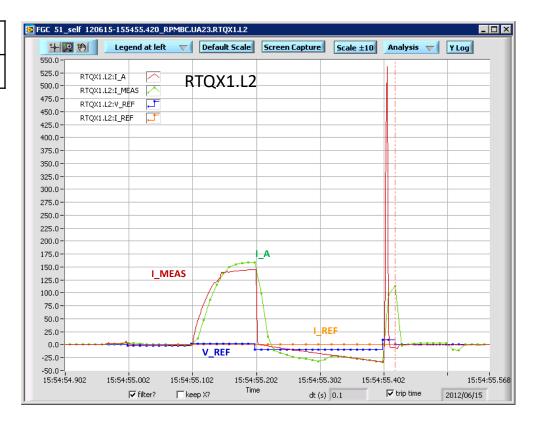


Event sequence - PC

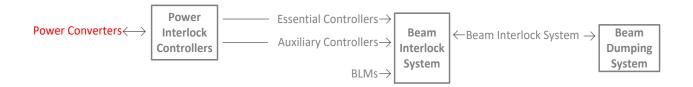


timestamp	delta [ms]	event description
15:54:55.100	-243	sudden current jump in Power Converter

- Internal problems of RTQX2.L2
- Affecting the 3 nested converters



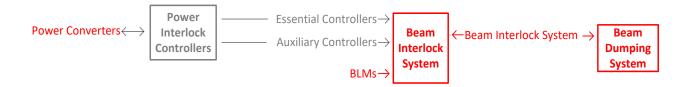
Event sequence - BPM



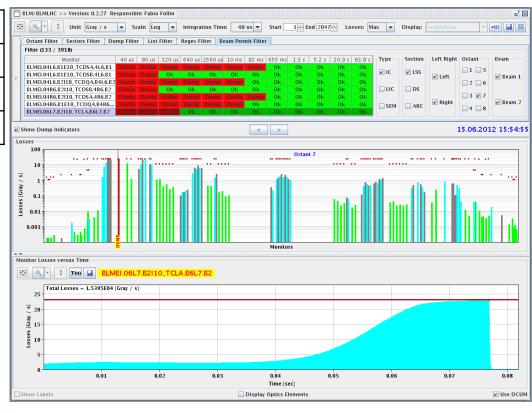
timestamp	delta [ms]	event description	
15:54:55.100	-243	sudden current jump in Power Converter	
15:54:55.243	-100	first orbit changes	



Event sequence - BLM



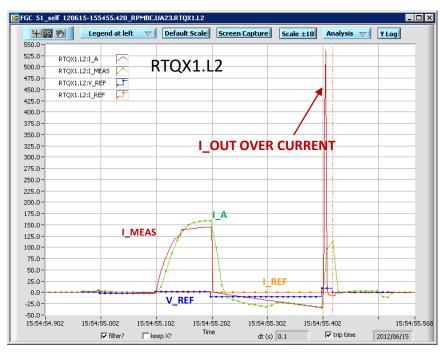
timestamp	delta [ms]	event description
15:54:55.100	-243	sudden current jump in Power Converter
15:54:55.243	-100	start of increasing orbit (5 orbits)
15:54:55.343	0	beam dump by BLM



Event sequence - PIC



timestamp	delta [ms]	event description	
15:54:55.100	-243	sudden current jump in Power Converter	
15:54:55.243	-100	start of increasing orbit (5 orbits)	
15:54:55.343	0	beam dump by BLM	
15:54:55.411	+68	beam dump request by PIC	



Local Time	Source	Туре	Item	Description	Message	Status
2012.06.15 15:54:55.411	Monitoring INPUT	PLC	CIP.UA23.XL2	Output of the CPLD Matrix	ST_MATRIX	BAD
2012.06.15 15:54:55.411			RQX.L2			BAD
2012.06.15 15:54:55.412	Global	PLC	CIP.UA23.XL2	Status of beam dump beam dump request from PI	CMD_UPERM_B1B2_UNM	BAD
2012.06.15 15:54:55.412	Global	PLC	CIP.UA23.XL2	Status of maskable beam dump request from PIC	CMD_UPERM_B1B2_MSK	BAD
2012.06.15 15:54:55.412	Output	А	RQX.L2	Inner Triplet (Q1Q2Q3 in series) - FNAL + KEK	CMD_PWR_PERM_PIC	BAD

Thank you

