eLogbook Thu 18-June-2009 Night

SPS *emetta*

is logged.

FILTER: Piquets Expert INFO Clear

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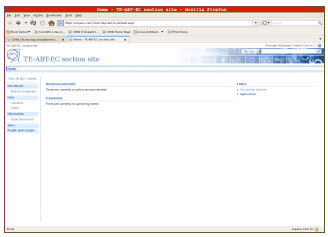
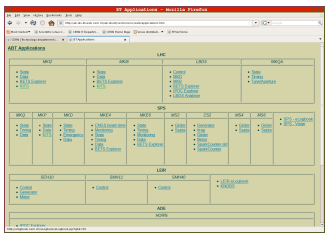
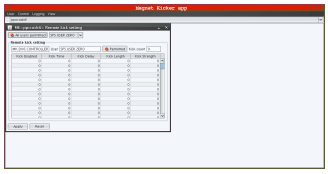
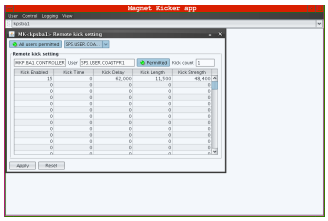
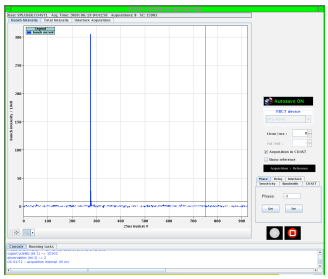
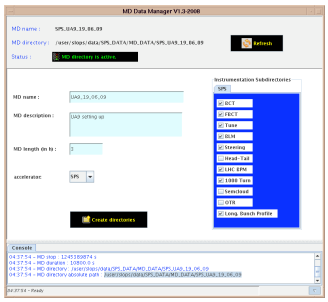
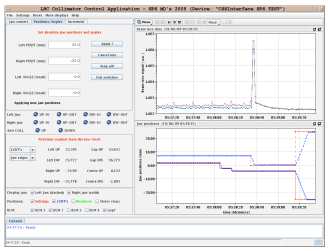
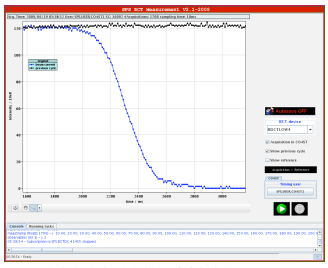
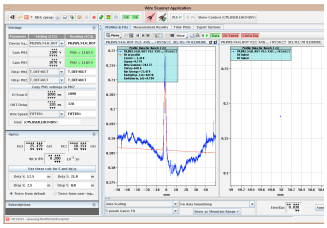
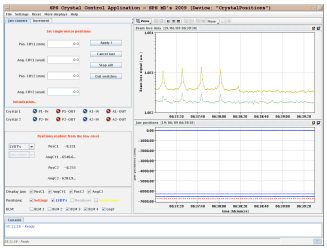
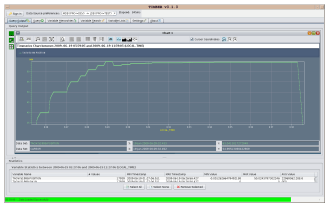
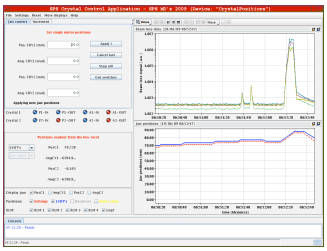
#	Time	H C 1	Comment
1	23:00		Stephane & Jerome Created by spsop from cwo-ccc-a7lc
2	23:04		> Piquet SPS > PO Ring > Called Piquet PO is still on Booster. He has got for half an hour. He will come just after done with it. Created by spsop from cwo-ccc-a7lc
3	01:14		> Piquet SPS > PO Ring > End The piquet think that the firing of the thyristor doesnt work corectly maybe. But after a lot of checked all are ok on SMQS. We restarted the MPS.????? Beam Back Created by spsop from cwo-ccc-a7lc
4	01:15		We have some problems with the event timing created to shift TT10 and RF ROCS. SX.FCY-2500-CTM OX.FCY2500-CTM OX.FCY400-CTM When the sequence go to the coast these events played because it depand of SX.V-SCY-CTM And the Rf, TT10 ROCS played the pulsed fonction. The problem is we can't disabled the virtual event SX.V-SCY-CTM because it is the same for all user timing. We must talk aboot that with JC Bau Created by spsop from cwo-ccc-a7lc
5	01:21		We loaded the MKP setting on user Coastpre1 And we load 4 generator on Created by spsop from cwo-ccc-a7lc
6	02:17		We masked the early dump on SIS. We called louis because apparently we must have a special password to can maked MKD EARLY ENABLED. Created by spsop from cwo-ccc-a7lc
			The beam is not injected on the Coastpre1?????

7	03:17		After some investigation we found that the beam permit is not gived at this user timing. We called Etienne Carlier and he set the beam permit in thru position with the expert application. You can found the application with this link https://espace.cern.ch/te-dep-abt-ec/default.aspx You click on : applications => image1 In the table SPS and the column MKP click on : KITS => image2 You launched the application enter your personnal logging nice not SPSOP Open the combo box and select : KPSBA1 => image3 Click on the menu on : Control=>Controller=>Remote Kick Setting Select the good user timing with the combo box => image4 Click on the button permit to obtain the green ligth or the red ligth wich correspond at beam permit tru or beam permit false and click on apply.  Image1.png  image2.png  image3.png  image4.png Created by spsop from cwo-ccc-a7lc
8	04:14		BCT and Fast BCT acquisition are working Created by spsop from cwo-ccc-a5lc
9	04:20		Masking Collimators in BA5 (input 8) and BIC_BA5_MASK in SIS Created by spsop from cwo-ccc-a5lc
			Finaly in coast... MKP was not allowing us to go in Coast ('MKP User Permit' False) -> We had to force the 'MKP User Permit' to 'Permitted' thru the specialist application 'Magnet Kicker App' (see attached screenshot)

10	04:22		 20090619042540.png Created by spsop from cwo-ccc-a5lc
11	04:41		Data for UA9 saved in /user/slops/data/SPS_DATA/MD_DATA/SPS_UA9_19_06_09  20090619044154.png  20090619044205.png  20090619044214.png Created by cpsop from cwo-ccc-a4lc
12	04:48		Running on coast for life time measurements. Start at about 04:40, end data set at about 5:00 Created by cpsop from cwo-ccc-a4lc
13	05:00		second measurement on coast for lifetime start at abuot 5:00 on same coast as before. Created by cpsop from cwo-ccc-a4lc
14	05:09		End lifetime measurement at about 5:10 Created by cpsop from cwo-ccc-a4lc
15	05:12		Moving the collimator to test BLMs Created by cpsop from cwo-ccc-a4lc
16	05:28		BLMs acquisition not working. BWS519H not scanning Created by cpsop from cwo-ccc-a4lc
17	05:30		If we have to believe to the measurement in TT2, the Eh(2s, norm) is 2.2 mum and 0.8 mum in V Created by cpsop from cwo-ccc-a4lc
18	05:38		Full beam scraping with collimator left jaw. First coarse alignemnt suggest that the beam is offset by about 5 mm towards the left jaw. Try to correct the orbit of the new beam.  20090619053939.png  20090619054003.png

			Created by spsop from cwo-ccc-a1lc
19	05:51		Reboot the PCGW32 because the acquisition of the UA9 detectors did not work. Created by spsop from cwo-ccc-a1lc
20	05:54		Correcting the orbit on the pulsed Created by cpsop from cwo-ccc-a4lc
21	06:05		After orbit correction the beam centre is at 1.1 mm Created by spsop from cwo-ccc-a1lc
22	06:15		Tune measured qx=0.125 Qy=0.173 Created by cpsop from cwo-ccc-a4lc
23	06:20		collimator jaws are set at: 5.6 mm (left jaw) -3.5 mm (right jaw); the half gap is of about 6 sigma (for a normalized emittance of 3 um) Created by spsop from cwo-ccc-a1lc
24	06:26		FWS meas at PS for emittance  20090619062656.png Created by cpsop from cwo-ccc-a4lc
25	06:27		We masked UA9 on SIS Created by spsop from cwo-ccc-a7lc
26	06:29		Seen TAL getting closer to the beam than the LHC collimator. First spike at 65mm. Try with smaller steps of 0.5 mm Created by lhcop from cwo-ccc-a0lc
27	06:30		Nothing seen until 64mm. Continue in steps of 0.2mm. Created by lhcop from cwo-ccc-a0lc
28	06:39		Remove tal.  20090619063935.png  20090619064022.png Created by lhcop from cwo-ccc-a0lc
29	06:51		Move crystal1. Closer to the beam than the collimator at 76.6 mm. See first spike in the plot. 

			20090619065251.png Created by lhcop from cwo-ccc-a0lc
30	06:53		Wrong movement: 10mm instead than 1mm! Beam lost. Created by lhcop from cwo-ccc-a0lc
31	06:57		New coast. Go at the same positions with the collimator. Created by lhcop from cwo-ccc-a0lc
32	06:57		Beam lost again. Created by lhcop from cwo-ccc-a0lc
33	06:58		Tried an angle scan with crystal into the beam halo: problem because the changes of angle settings also change the average position of the crystal. Need to check this from the mechanical point of view. Created by lhcop from cwo-ccc-a0lc
34	06:59		Summary of the tests: We only had coasting beam for about 2 h. In this limited time we could: - verify all the agreed beam measurements with coasting cycle. - centre the LHC collimator jaw around the local beam orbit and set it to opening of about 6 sigmas (final values to be confirmed after detailed look at the measured data). - perform relative alignment of the TAL with respect to the 6 sigma beam envelope defined by the collimator. We found that the TAL got closer to the beam than at collimator at a position of +64.5mm from the out switches. - perform relative alignment of the CRYSTAL-1 with respect to the 6 sigma beam envelope defined by the collimator. We found that the cristal got close to the beam than the collimator at a position of 76.6 mm from the OUT switches. - perform a first angle scan of crystal-1 with crystal into the beam. This scan showed that the position of the cristal is strongly affected by the angle settings, which is obviously not good. This require follow-up. Clearly the data quoted above are to be considered as preliminary and will have to be confirmed by careful analysis off-line of the measured data. It is also worth noticing that for all the devices moved we verified the correcto functioning of the control applications, of the logging and of the private data acquisitions. Created by lhcop from cwo-ccc-a0lc

FAULTS

#	Group	Fault	Element	Description	Begin	End	Duration
NO FAULT							