



LHC injection dry run

Dry injection - December

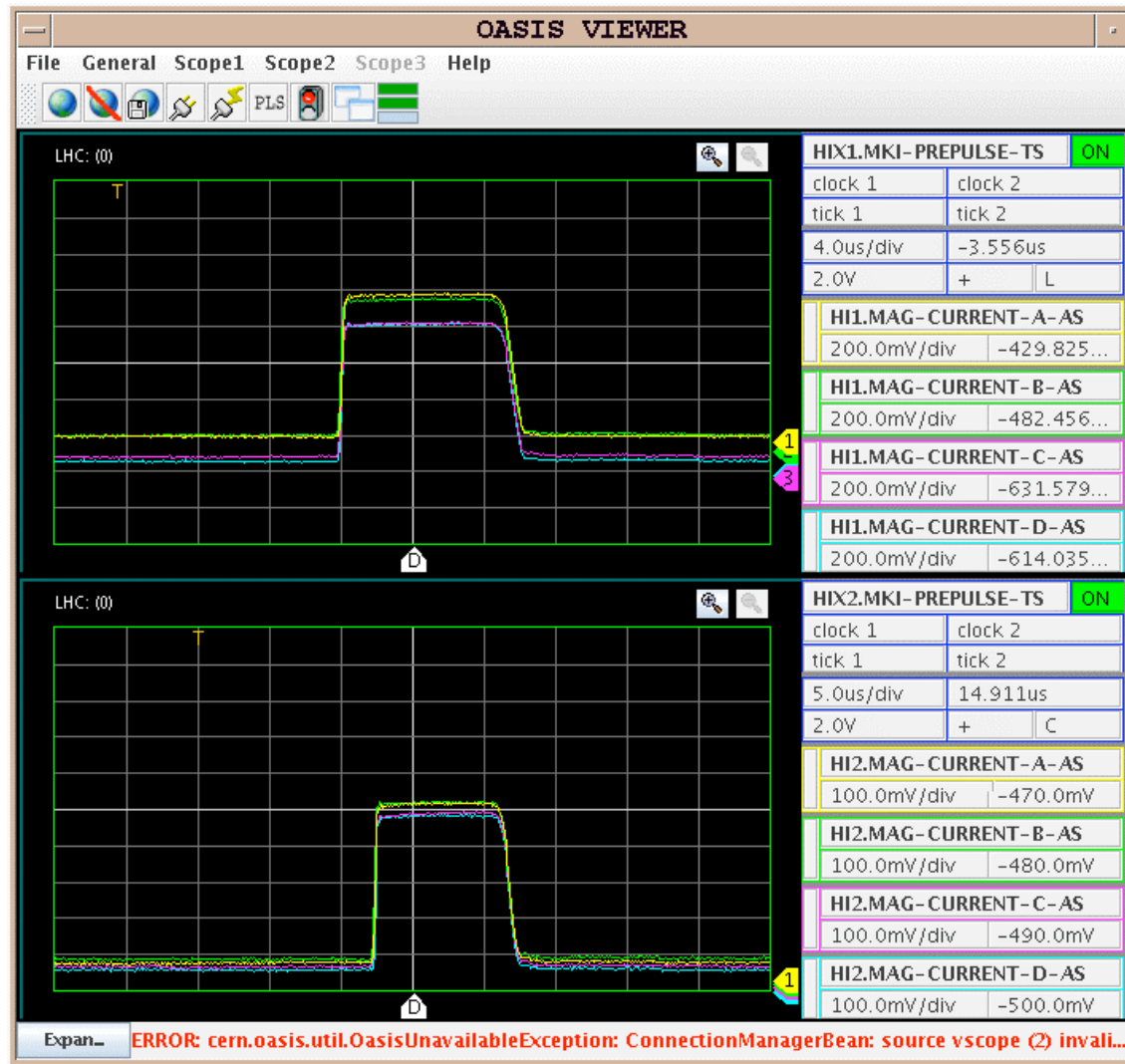
Drive Injection sequence

Optics	As usual
Settings	Power converters, RF, Kickers, Collimators, Bumps, injection point steering
FIDEL	450 GeV – decay, transfer functions
Timing	BST, GMT, timing tables, events, telegrams, injection request, application, sequencer
Kickers	Timing, control, analog acquisition
RF	Pre-pulse
Standard facilities	Mode, FD, logging, alarms
Collimators	FSM, settings, monitoring
Screens	Control, acquisition
BPMs, BLMs, WS, SRMs	Event triggered acquisition,



Timing

Kickers





Set DRY RUN DEC 07

Monitoring set: DRY RUN DEC 07 14 December, 2007, 16:23:24

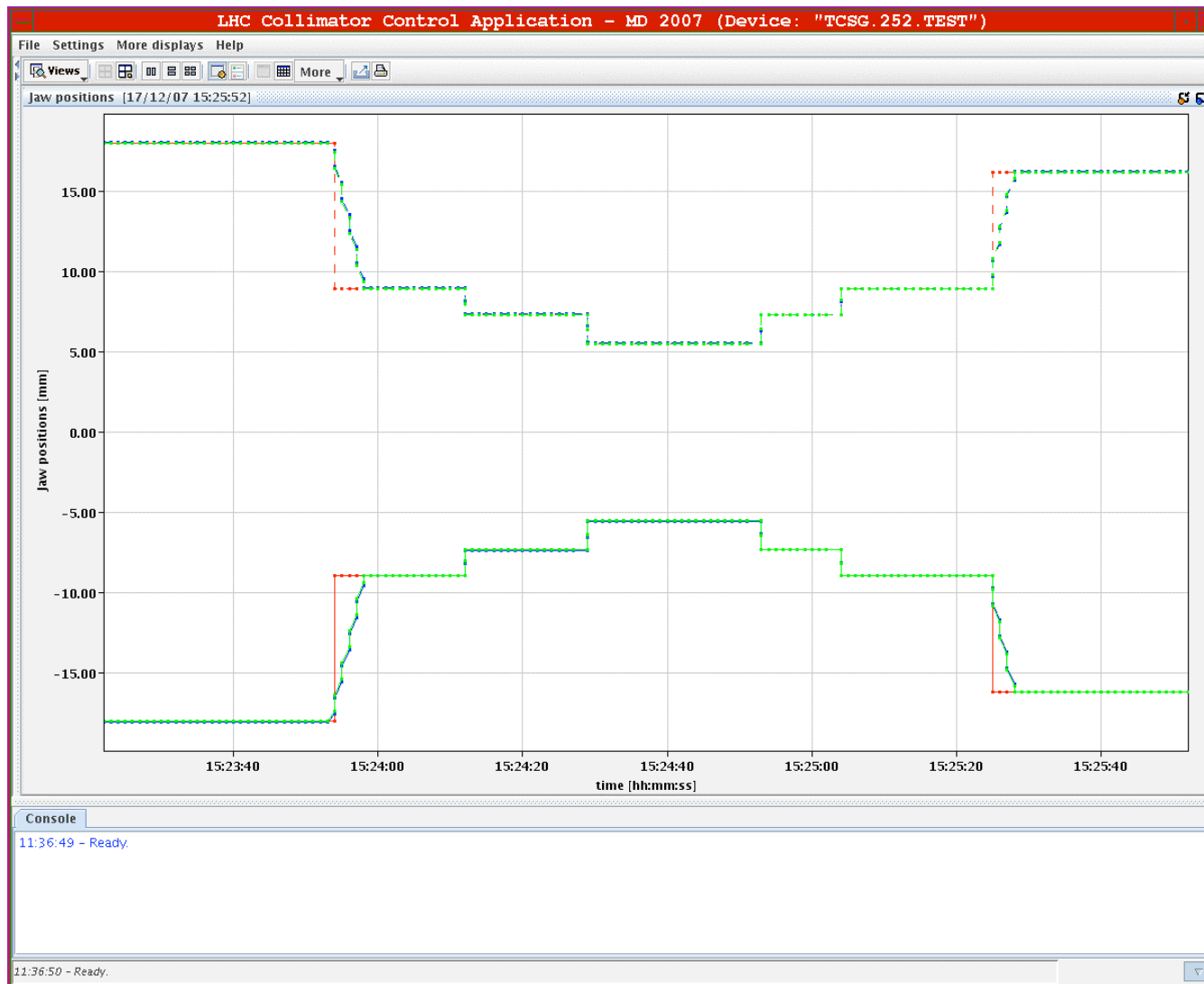
RB.A12	RB.A23	RB.A34	RB.A56	RB.A67	RB.A78	RB.A81	RCBCH5.L8B1
RCBCH5.L8B1	RCBCH5.L8B2	RCBCV5.L8B2	RCBCV5.L8B1	RCBCV5.L8B2	RCD.A78B1	RCD.A78B2	RCO.A78B1
RCO.A78B2	RCS.A78B1	RCS.A78B2	RD1.L2	RD1.L8	RD1.R2	RD2.L1	RD2.L2
RD2.L8	RD2.R1	RD2.R2	RD2.R5	RD2.R8	RD3.L4	RD4.L4	RMSD.LR6B1
RMSD.LR6B2	RQ10.L1B1	RQ10.L1B2	RQ10.L2B1	RQ10.L2B2	RQ10.L4B1	RQ10.L4B2	RQ10.L6B1
RQ10.L6B2	RQ10.L8B1	RQ10.L8B2	RQ10.R1B1	RQ10.R1B2	RQ10.R2B1	RQ10.R2B2	RQ10.R5B1
RQ10.R5B2	RQ10.R6B1	RQ10.R6B2	RQ10.R8B1	RQ10.R8B2	RQ4.L1B1	RQ4.L1B2	RQ4.L2B1
RQ4.L2B2	RQ4.L6B1	RQ4.L6B2	RQ4.L8B1	RQ4.L8B2	RQ4.R1B1	RQ4.R1B2	RQ4.R2B1
RQ4.R2B2	RQ4.R5B1	RQ4.R5B2	RQ4.R6B1	RQ4.R6B2	RQ4.R8B1	RQ4.R8B2	RQ5.L1B1
RQ5.L1B2	RQ5.L2B1	RQ5.L2B2	RQ5.L4B1	RQ5.L4B2	RQ5.L6B1	RQ5.L6B2	RQ5.L8B1
RQ5.L8B2	RQ5.R1B1	RQ5.R1B2	RQ5.R2B1	RQ5.R2B2	RQ5.R5B1	RQ5.R5B2	RQ5.R6B1
RQ5.R6B2	RQ5.R8B1	RQ5.R8B2	RQ6.L1B1	RQ6.L1B2	RQ6.L2B1	RQ6.L2B2	RQ6.L4B1
RQ6.L4B2	RQ6.L8B1	RQ6.L8B2	RQ6.R1B1	RQ6.R1B2	RQ6.R2B1	RQ6.R2B2	RQ6.R5B1
RQ6.R5B2	RQ6.R8B1	RQ6.R8B2	RQ7.L1B1	RQ7.L1B2	RQ7.L2B1	RQ7.L2B2	RQ7.L4B1
RQ7.L4B2	RQ7.L8B1	RQ7.L8B2	RQ7.R1B1	RQ7.R1B2	RQ7.R2B1	RQ7.R2B2	RQ7.R5B1
RQ7.R5B2	RQ7.R8B1	RQ7.R8B2	RQ8.L1B1	RQ8.L1B2	RQ8.L2B1	RQ8.L2B2	RQ8.L4B1
RQ8.L4B2	RQ8.L6B1	RQ8.L6B2	RQ8.L8B1	RQ8.L8B2	RQ8.R1B1	RQ8.R1B2	RQ8.R2B1
RQ8.R2B2	RQ8.R5B1	RQ8.R5B2	RQ8.R6B1	RQ8.R6B2	RQ8.R8B1	RQ8.R8B2	RQ9.L1B1
RQ9.L1B2	RQ9.L2B1	RQ9.L2B2	RQ9.L4B1	RQ9.L4B2	RQ9.L6B1	RQ9.L6B2	RQ9.L8B1
RQ9.L8B2	RQ9.R1B1	RQ9.R1B2	RQ9.R2B1	RQ9.R2B2	RQ9.R5B1	RQ9.R5B2	RQ9.R6B1
RQ9.R6B2	RQ9.R8B1	RQ9.R8B2	RQD.A12	RQD.A23	RQD.A34	RQD.A56	RQD.A67
RQD.A78	RQD.A81	RQF.A12	RQF.A23	RQF.A34	RQF.A56	RQF.A67	RQF.A78
RQF.A81	RQS.L8B1	RQTL11.L8B1	RQTL11.L8B2	ROX.L1	ROX.L2	ROX.L5	ROX.L8
ROX.R1	ROX.R2	ROX.R5	RTQX1.L1	RTQX1.L2	RTQX1.L5	RTQX1.L8	RTQX1.R1
RTQX1.R2	RTQX1.R5	RTQX2.L1	RTQX2.L2	RTQX2.L5	RTQX2.L8	RTQX2.R1	RTQX2.R2
				RTQX2.R5			

RBAC

The screenshot shows the 'Equip State' application window. The title bar reads 'Equip State'. The interface is divided into several sections:

- Context Selection:** Shows 'EquipState' selected.
- Filtering:** 'Filtering on Particle Transfer: LHCRING'.
- Hardware Group:** A list of hardware groups on the left, including '24-hours-18july', '24h-05-02-2007', '24h-28-02-2007', '24hset', '8-hours-12july', '8-hours-14july', '8-hours-6-12-06', '8h-23-02-2007', '8h-26-01-2007', '8h-30-01-2007', '8hours 29-09-2006', '8hrs 24-10-2006', '8hrs-27-10-06', 'ATLAS', 'B3', 'B4', 'B5', 'BEAM LOSS MONITORS', 'CHROMATICITY', 'COLLIMATORS', and 'DISPERSION SUP. DIPOLE-H'. A 'Select All' button is at the bottom.
- Table:** A table with columns 'HWName' and 'STATUS'. The first row is 'RPHE.UA23.RQD.A12' with 'ERROR' in red text. Other rows include 'RPHE.UA23.RQF.A12', 'RPHE.UA27.RQD.A23', 'RPHE.UA27.RQF.A23', 'RPHE.UA43.RQD.A34', 'RPHE.UA43.RQF.A34', 'RPHE.UA87.RQD.A81', 'RPHE.UA87.RQF.A81', 'RPHF.UA23.RD1.L2', 'RPHF.UA23.RD2.L2', 'RPHF.UA27.RD1.R2', 'RPHF.UA27.RD2.R2', 'RPHF.UA83.RD1.L8', 'RPHF.UA83.RD2.L8', 'RPHF.UA87.RD2.R8', 'RPHFC.UA23.RQX.L2', 'RPHFC.UA27.RQX.R2', 'RPHFC.UA83.RQX.L8', 'RPHFC.UJ14.RQX.L1', and 'RPHFC.UJ16.RQX.R1'. A 'Select All' button is at the bottom.
- Read commands:** A list of commands including 'STATE PC', 'READ FUNCTION', 'FAULTS', 'POLARITY', 'REF TYPE', 'EVENT GROUP', 'LOAD.LIMITS.L_NEG', 'LOAD.LIMITS.L_POS', 'LOAD.LIMITS.L_MIN', 'LOAD.LIMITS.DIDT', 'TIME.RUN', 'FGC2.ST_UNLATCHED', 'SUB_51', 'VS.LIMITS', 'FGC2.WARNINGS', 'FGC2.ST_LATCHED', 'LOAD.LIMITS[0]', 'REF.PELP', 'LOAD.SELECT', 'MEAS.I', 'MEAS.V', and 'STATE OP'. An 'Execute read' button is at the bottom.
- Write commands:** A list of commands including 'ACCELERATION', 'LOAD FUNCTION', 'SWITCH POLARITY', 'REF TYPE', 'SET EVENT GROUP 1', 'SET MODE.OP', 'LOAD.LIMITS.L_NEG', 'LOAD.LIMITS.L_POS', 'LOAD.LIMITS.L_MIN', 'LOAD.LIMITS.DIDT', 'TIME.RUN', 'REF.PELP.FINAL', 'REF.PELP.DECCELERATION', 'REF.PELP.LINEAR_RATE', and 'REF.PELP.T_EXP'. An 'Execute write' button is at the bottom.
- State commands:** A list of commands including 'OFF', 'IDLE', and 'ON_STANDBY'. An 'Execute state' button is at the bottom.
- Parameter Values:** A table with columns 'Parameter' and 'Values'.
- Console:** A log window showing the following messages:
 - 16:04:36 - rbac.integrator.propagate.closing: null
 - 16:04:37 - Performing login
 - 16:04:37 - new thread ...
 - 16:05:06 - Login successful, token RBAToken[serial=0xb05d8852;auth=2007-12-17T16:05:06;end=2007-12-18T00:35:06;application=AppPrincipal[name=DEFAULT;critical=false;timeout=180];loc...
 - 16:05:37 - Executing command STATE PC on cycle(s) TRACKING-TEST-7TeVY1.TRACKING-TEST-7TeV.C0 on RPHE.UA23.RQD.A12
 - 16:05:37 - Error getting result on device RPHE.UA23.RQD.A12
 - cern.japc.ParameterException: access denied by rbac
 - at cern.japc.ext.cmwrda.RDAPParameter.getValueImpl(RDAPParameter.java:140)
 - Caused by:
 - cern.cmw.ioError: [FGC - 69] access denied by rbac
 - at cern.cmw.rda.client.ServerConnection.raise(ServerConnection.java:1008)
 - 16:05:37 - Error getting result on device RPHE.UA23.RQD.A12

Collimators



BPMs

