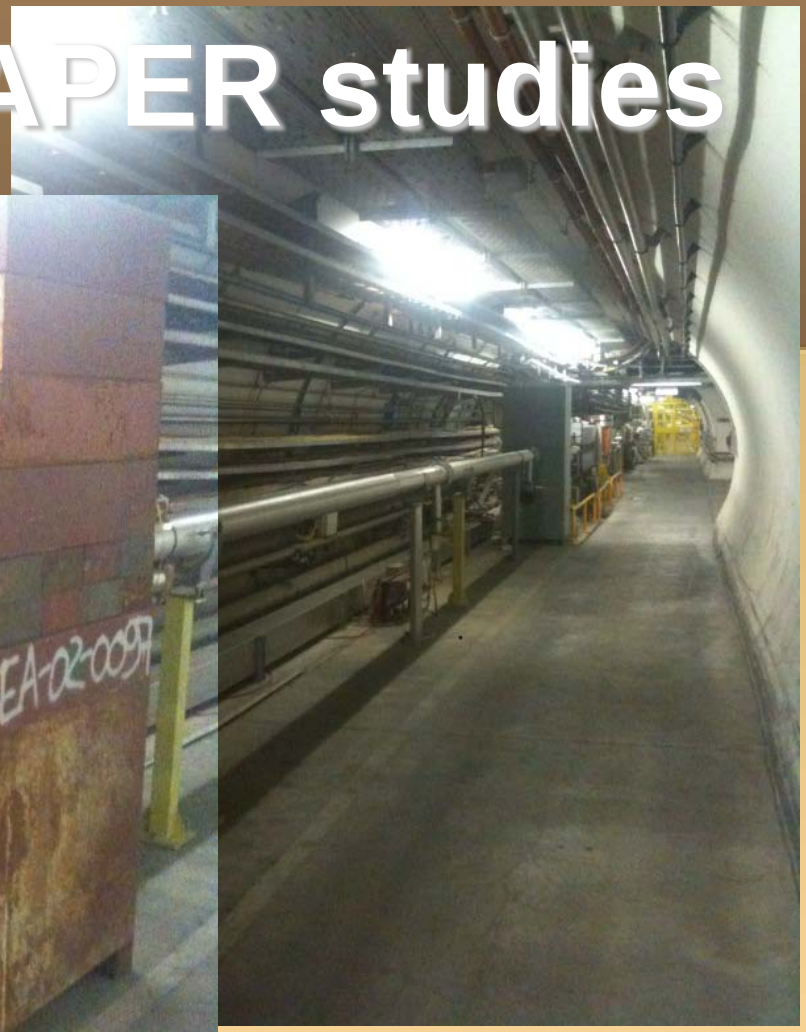
NEW SCRAPER studies



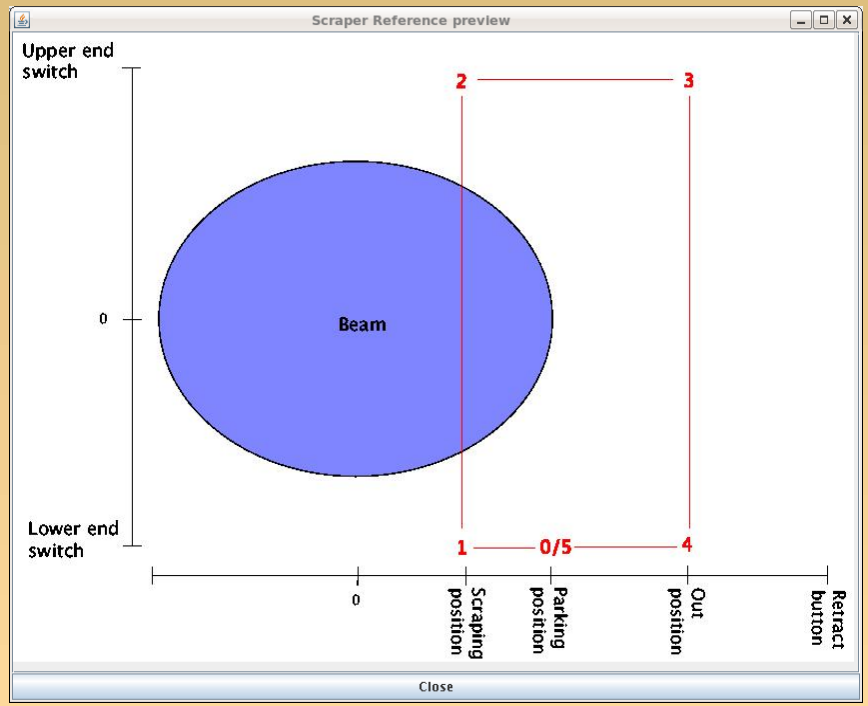
- Eric VEYRUNES

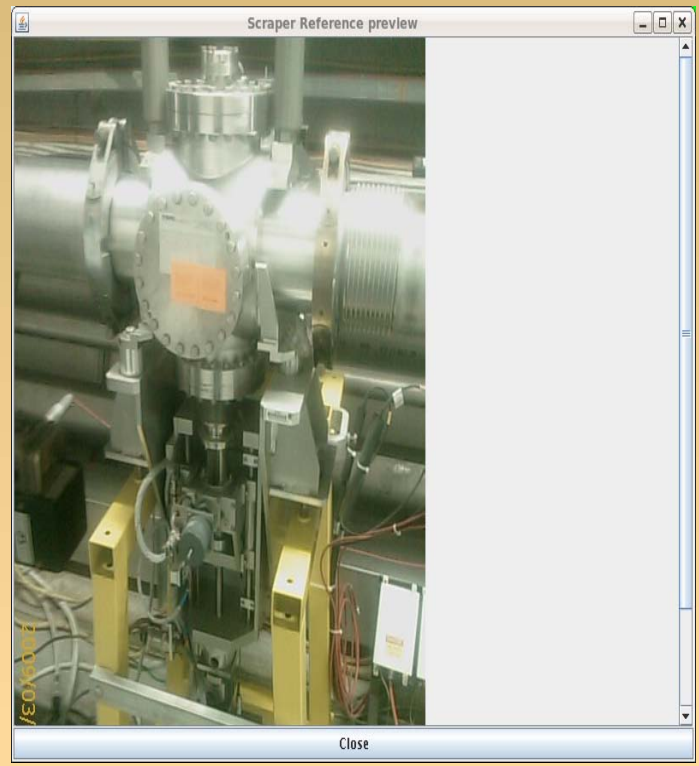
SUMMARY

- Scraper details
- Application
- First test since change
- Both plane
- Delay with settings 210-230 ms

Scraper Details

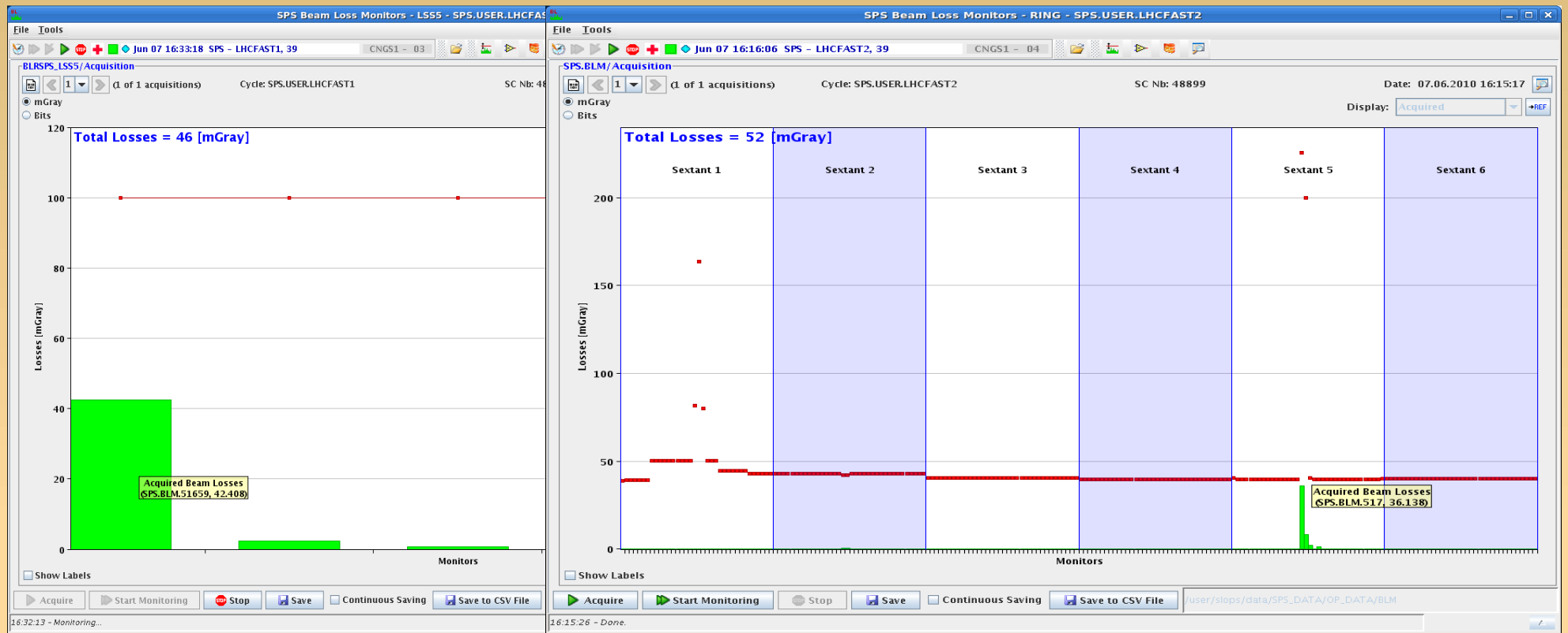
- The scraper is used to clean satellites for LHC high intensity beam.





Scraper Details

- BSHV.51659, BA5(-), LSS5, position 51659.
- Ring : BLM517, LSS5 : BLM.51659

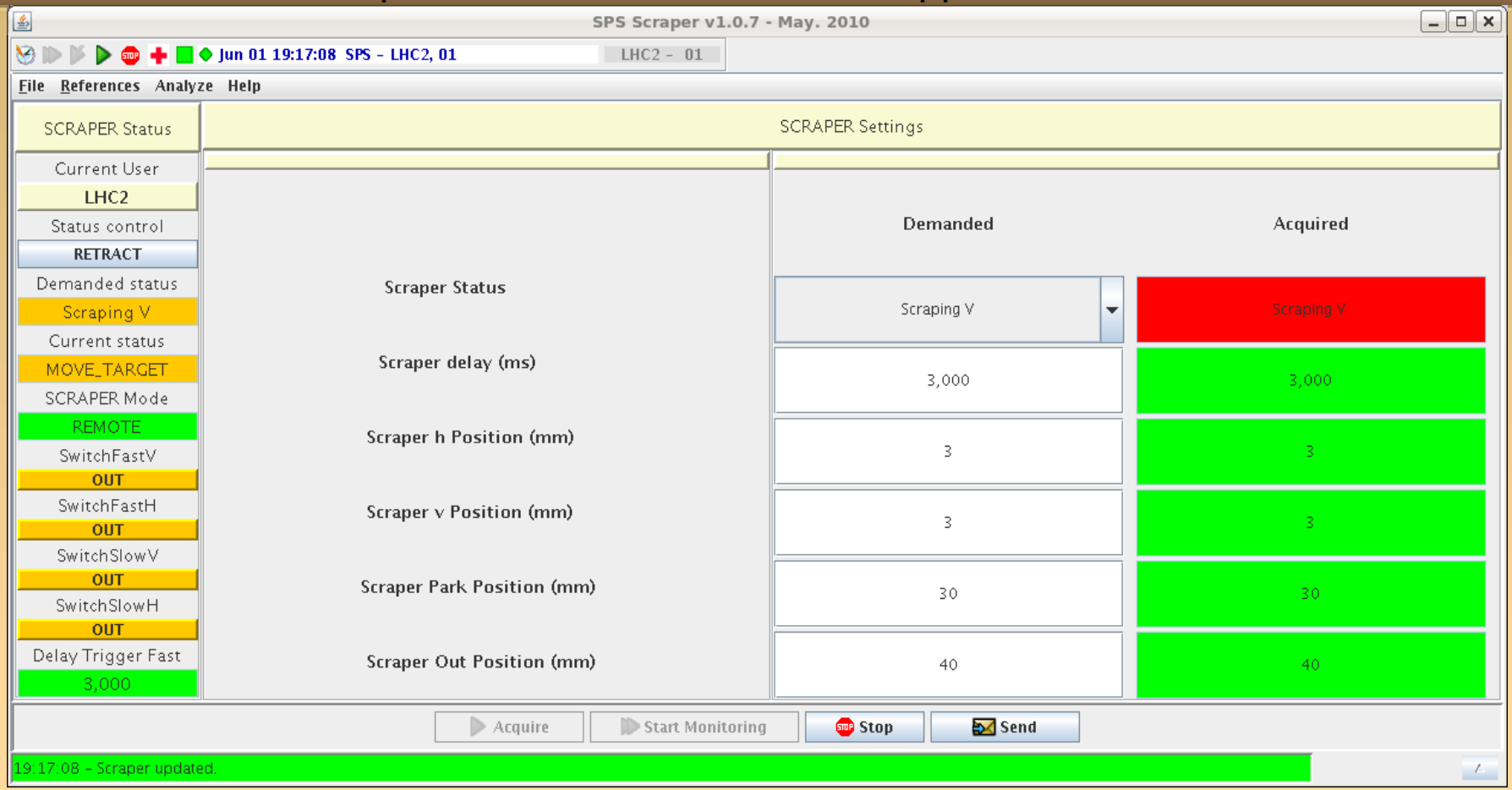


Scraper Details

- Only control change :
  - Cables, Motors (collimator type) and FESA class
    - Old class : BOSCRA>SCR50S.
    - New class : SPSSCRAPER>BSHV.51659.
    - New Server : cfc-ba5-tscrap

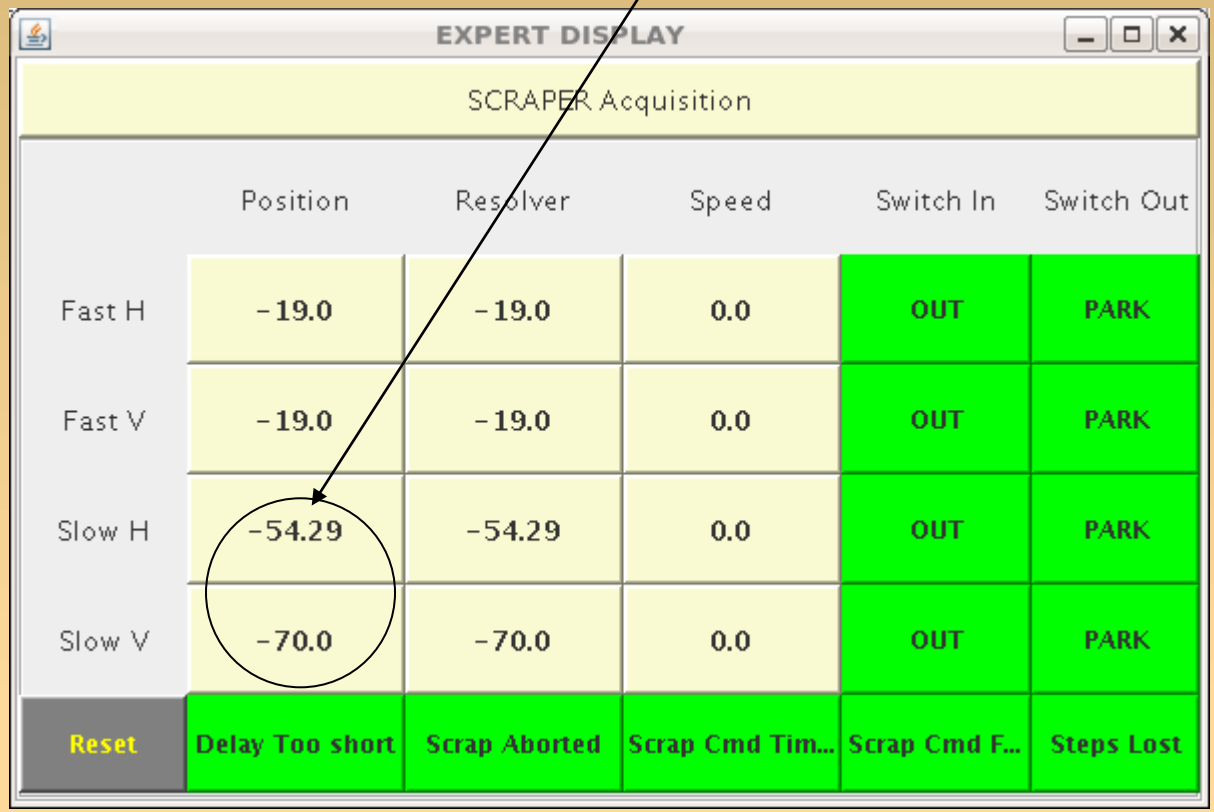
Application

- SPS CONTROL>SPS Equipment Control>SPS Beam Obstacle>New-Scraper
- In the same spirit of MKP and MKE kicker application.



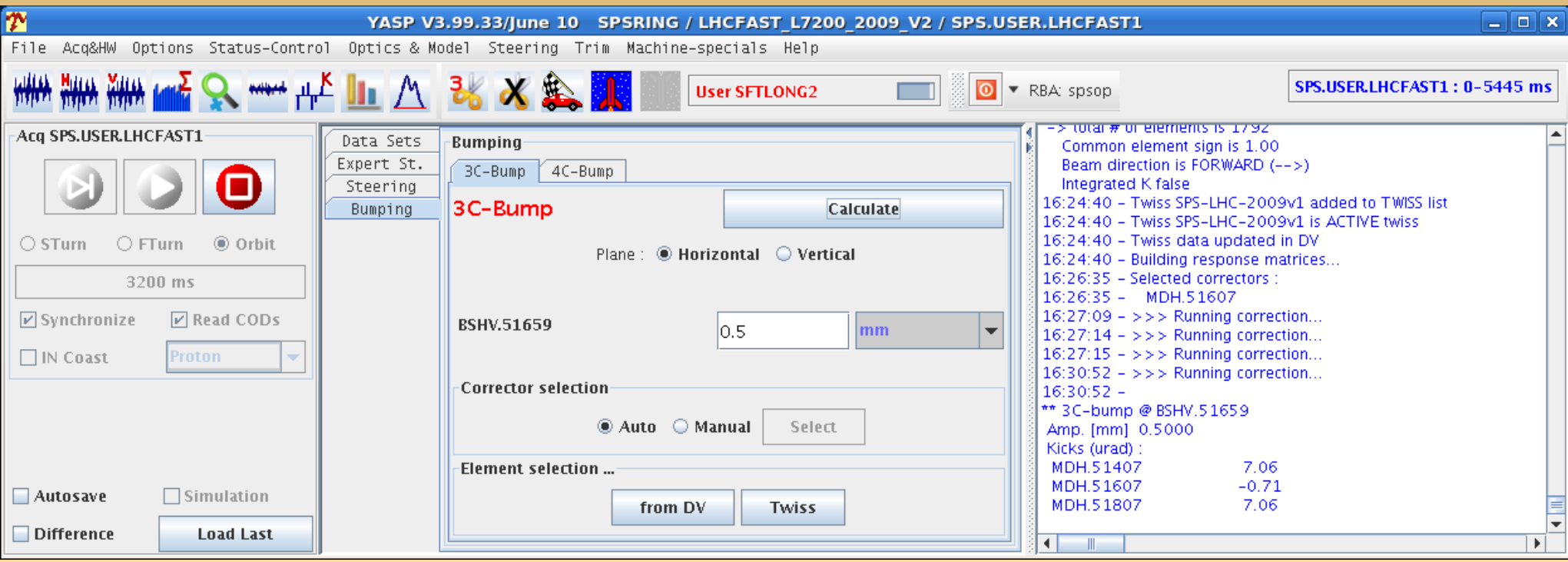
First test since change

- There is no more same retracted position for H and V (was -70 mm both plane).



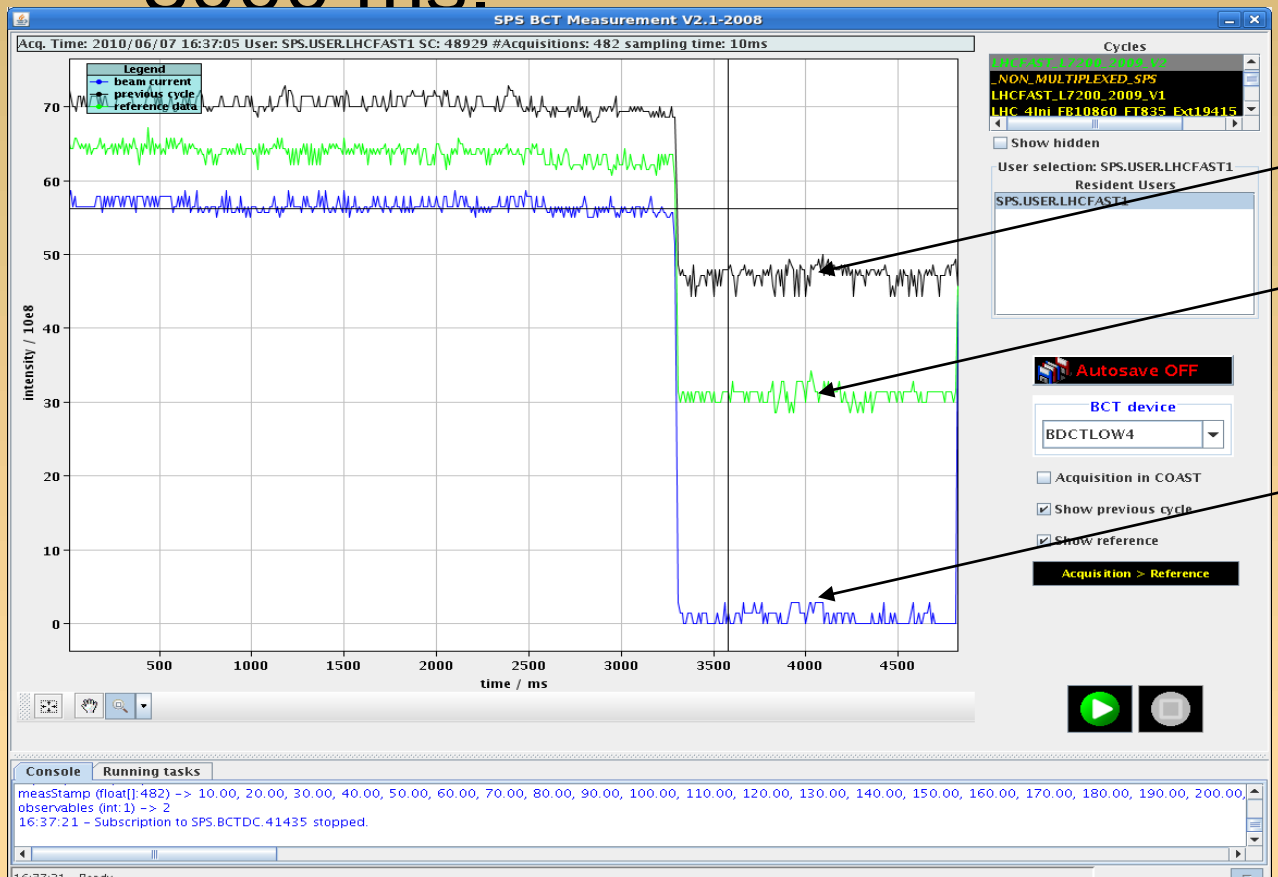
First test since change

- Bump 3 C close to the scraper H plane @ 3000 ms.



First test since change

- Bump 3 C close to the scraper H plane @ 3000 ms.



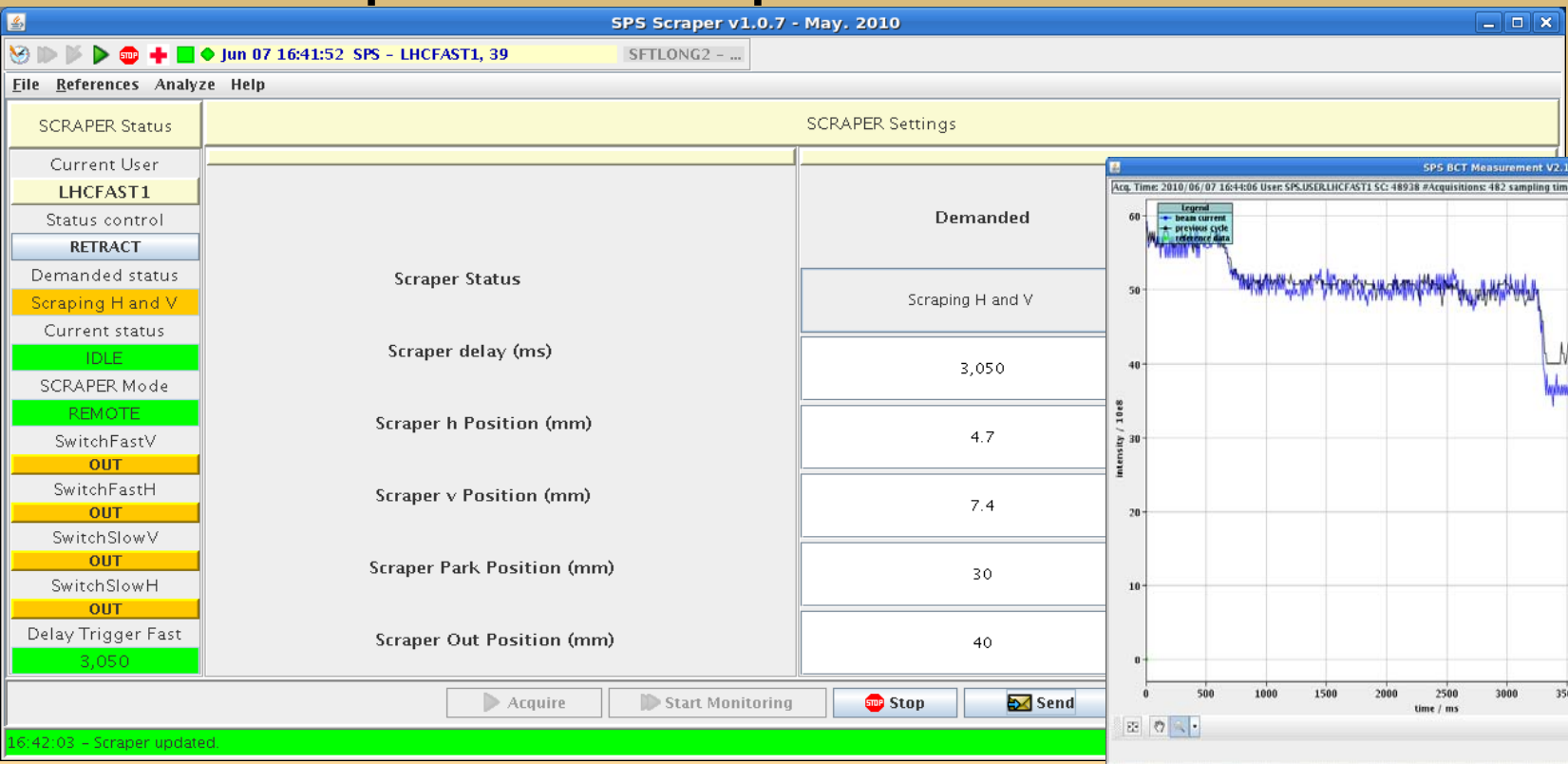
0 mm

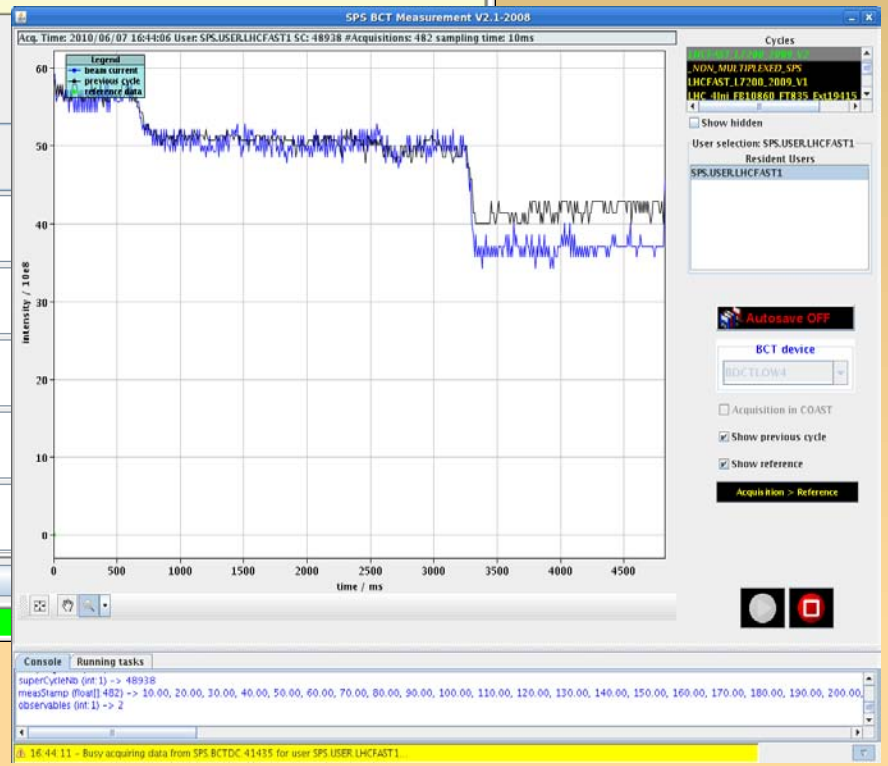
0.5 mm

1 mm

BOTH Plane

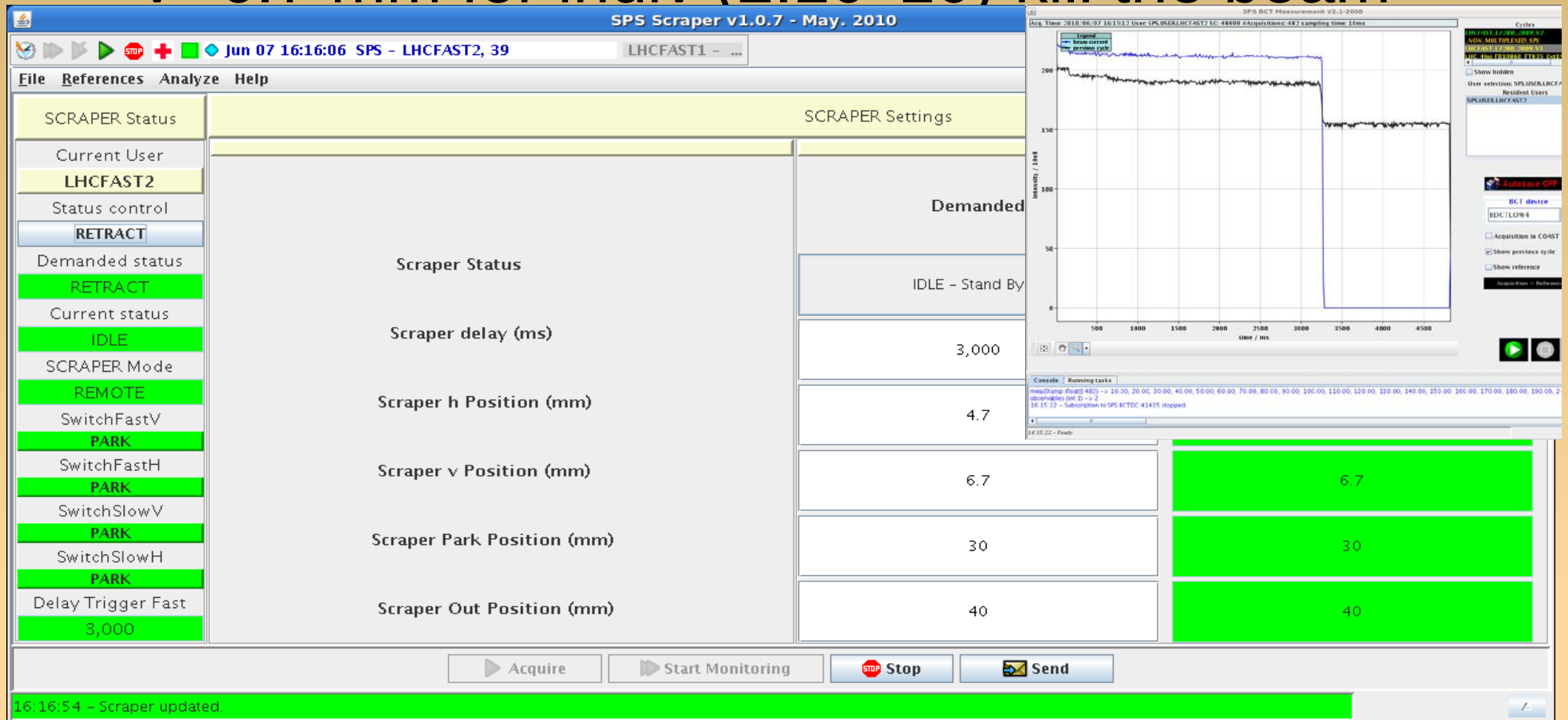
- Scraper position before touch the beam in both plane with pilot.



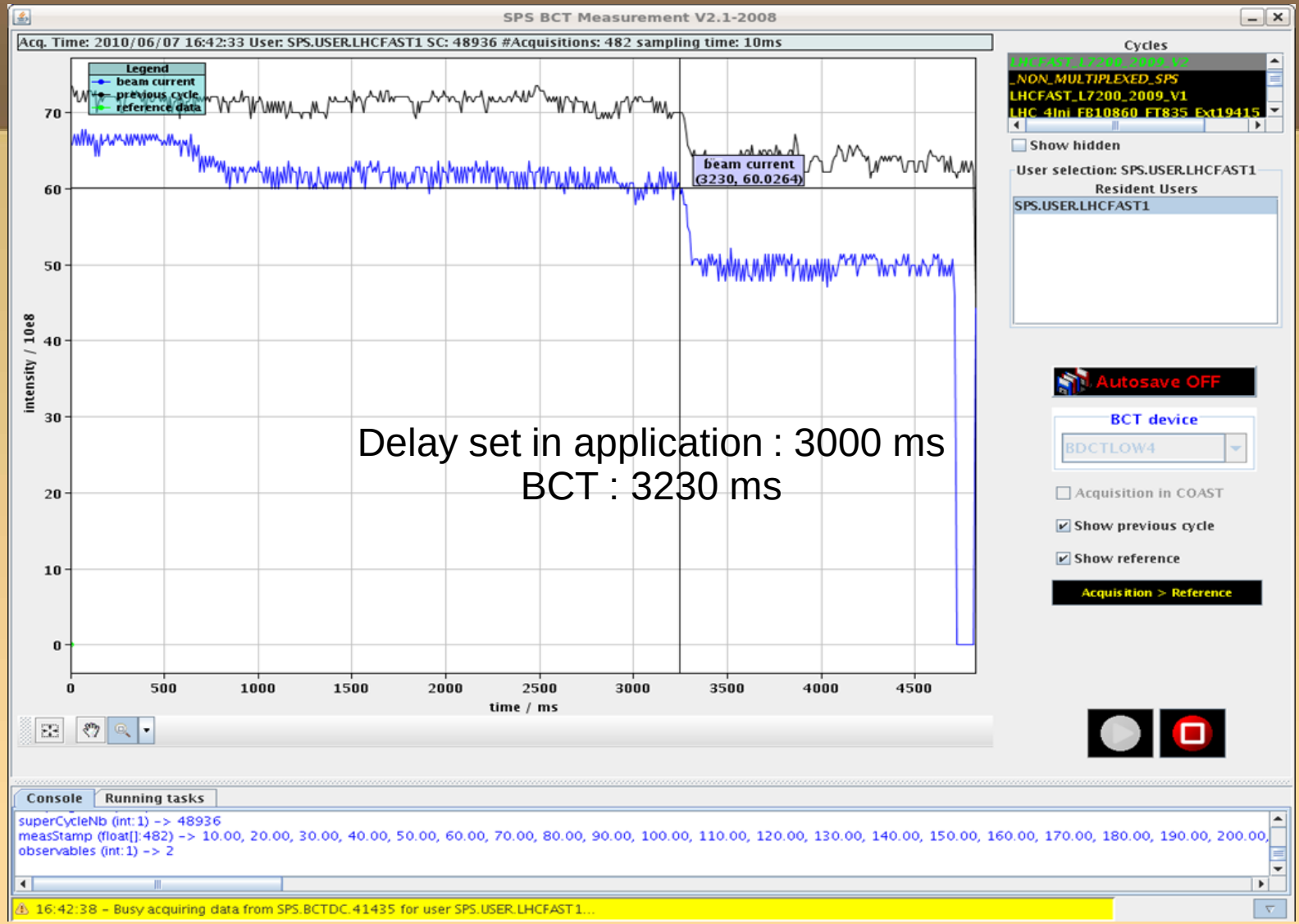


BOTH Plane

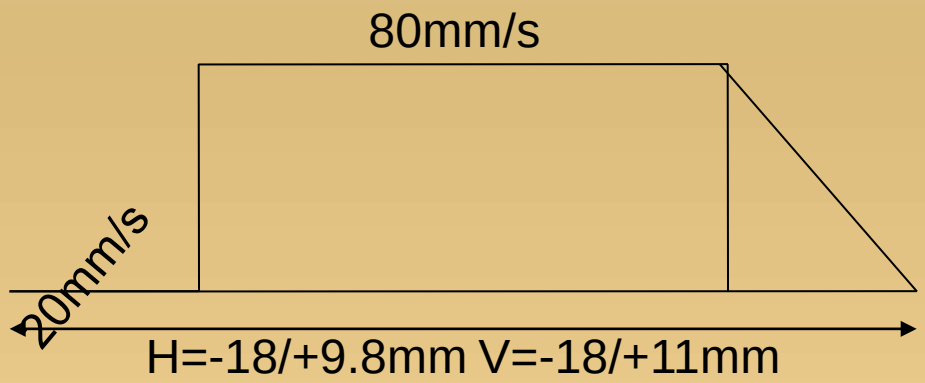
- V=7.4 mm for pilot touch beam.
- V=6.7 mm for indiv (2.10^10) kill the beam



Delay (V)210ms-(H)230ms



Delay 210ms-230ms



200ms<>16mm@80mm/s

>Delay probably due to the speed of the scraper.

Elogbook details

http://elogbook/eLogbook/eLogbook.jsp?shiftId=1027364

http://elogbook/eLogbook/eLogbook.jsp?shiftId=1027382