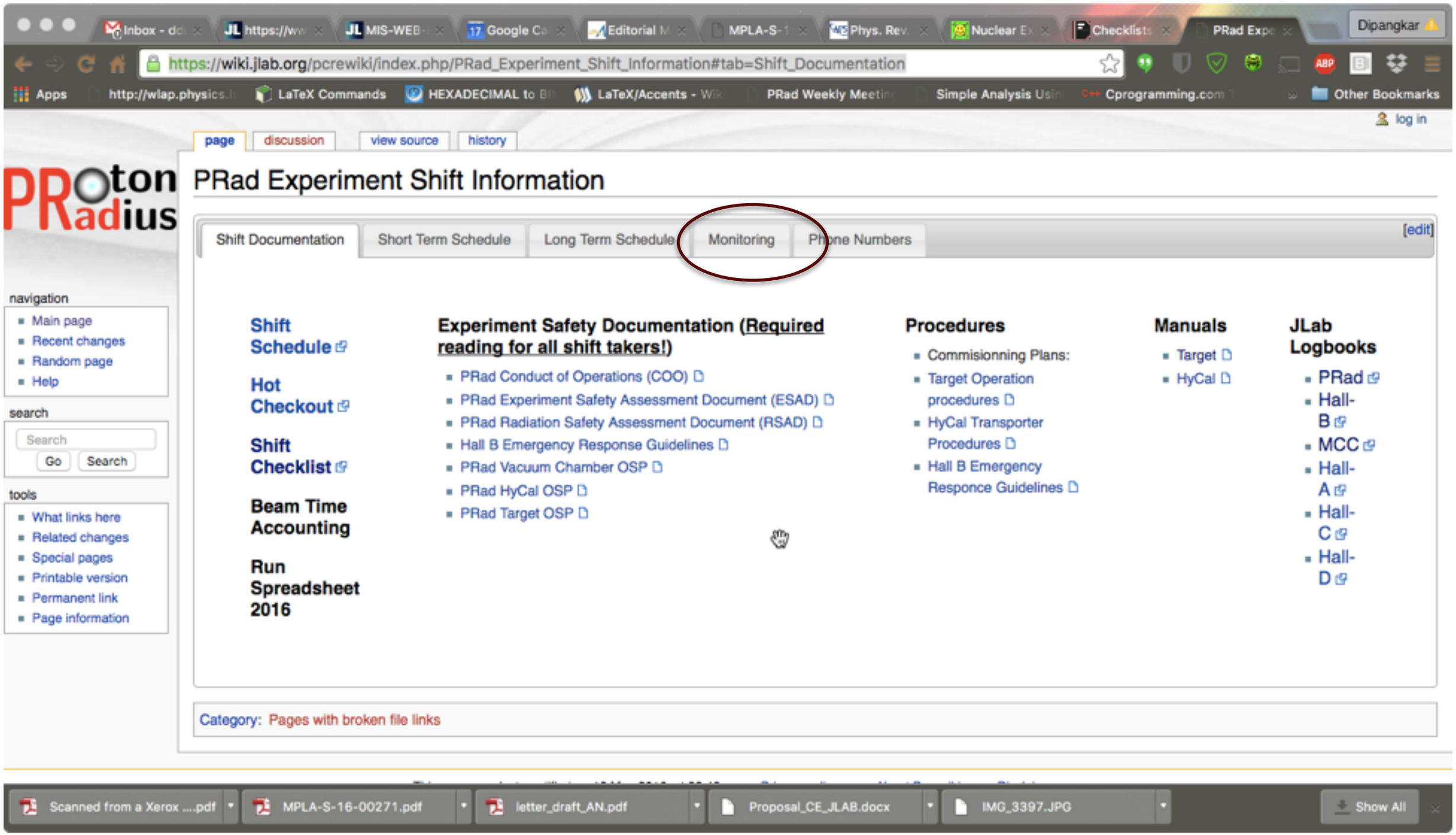
Shift Checklist How-to

Much of the information needed to fill out the shift checklist can be found on the *Monitoring* page in the PRad wiki. The *Monitoring* page can be accessed from the *PRad Experiment Shift Information* page at (https://wiki.jlab.org/pcrewiki/index.php/PRad_Experiment_Shift_Information#tab=Shift_Documentation). See Fig. 1

- Beam current and energy: Look at the cebaf status page on the *Monitoring* page (https://cebaf.jlab.org/).
- Beam positions X/Y on 2C24A, 2C21A and 2H01: Get from the PRad scalers GUI (usually on the top monitor of CLONPC16). See Fig. 2, marked by the red ovals.
- Collimator/Apperture position: Also from the PRad scalers GUI (See Fig. 2, marked by the blue circle).
- Trigger, event rate and live-time: Get from the CODA GUI.
- H target temp/flow rate/pressure and position/angle and vacuum box pressure: Get from target control window.
- Hycal temperature and Chiller water temperature: Get from the right viewer camera image on CLONPC17 (see Fig. 4)
- Chiller water pressure: Get from the right viewer camera image on CLONPC17 by panning down using the slider on the right side of the window. The gauges are hard to read from the camera image, but if they look as in Fig 4, that is normal. Please move camera back to original position after use.
- HyCal HV on: Get from HyCal online monitoring GUI usually on CLONPC16 or can be restarted from the *Monitoring* page (see Fig. 5)
- GEM HV on: Get from GEM HV control GUI usually on CLONPC16 or can be restarted from the *Monitoring* page (see Fig. 6)
- GEM gas flow and cylinder pressure: Go to Hall B gas shed behind the counting house (not Bldg 96B) and check cylinder pressure (see Fig. 7). The gas flow is not easily visible form camera image.
- Additional power supplies: Look at pradbst1.jlab.org through pradbst6.jlab.org (see Fig. 8)


https://wiki.jlab.org/pcrewiki/index.php/PRad_Experiment_Shift_Information#tab=Shift_Documentation
page
discussion
view source
history
log in
PRad Experiment Shift Information
Shift Documentation
Short Term Schedule
Long Term Schedule
Monitoring
Phone Numbers
[edit]
navigation
Main page
Recent changes
Random page
Help
search
Search
Go
Search
tools
What links here
Related changes
Special pages
Printable version
Permanent link
Page information
Shift Schedule
Hot Checkout
Shift Checklist
Beam Time Accounting
Run Spreadsheet 2016
Experiment Safety Documentation (Required reading for all shift takers!)
PRad Conduct of Operations (COO)
PRad Experiment Safety Assessment Document (ESAD)
PRad Radiation Safety Assessment Document (RSAD)
Hall B Emergency Response Guidelines
PRad Vacuum Chamber OSP
PRad HyCal OSP
PRad Target OSP
Procedures
Commisionning Plans:
Target Operation procedures
HyCal Transporter Procedures
Hall B Emergency Responce Guidelines
Manuals
Target
HyCal
JLab Logbooks
PRad
Hall-B
MCC
Hall-A
Hall-C
Hall-D
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Show All

Fig. 1

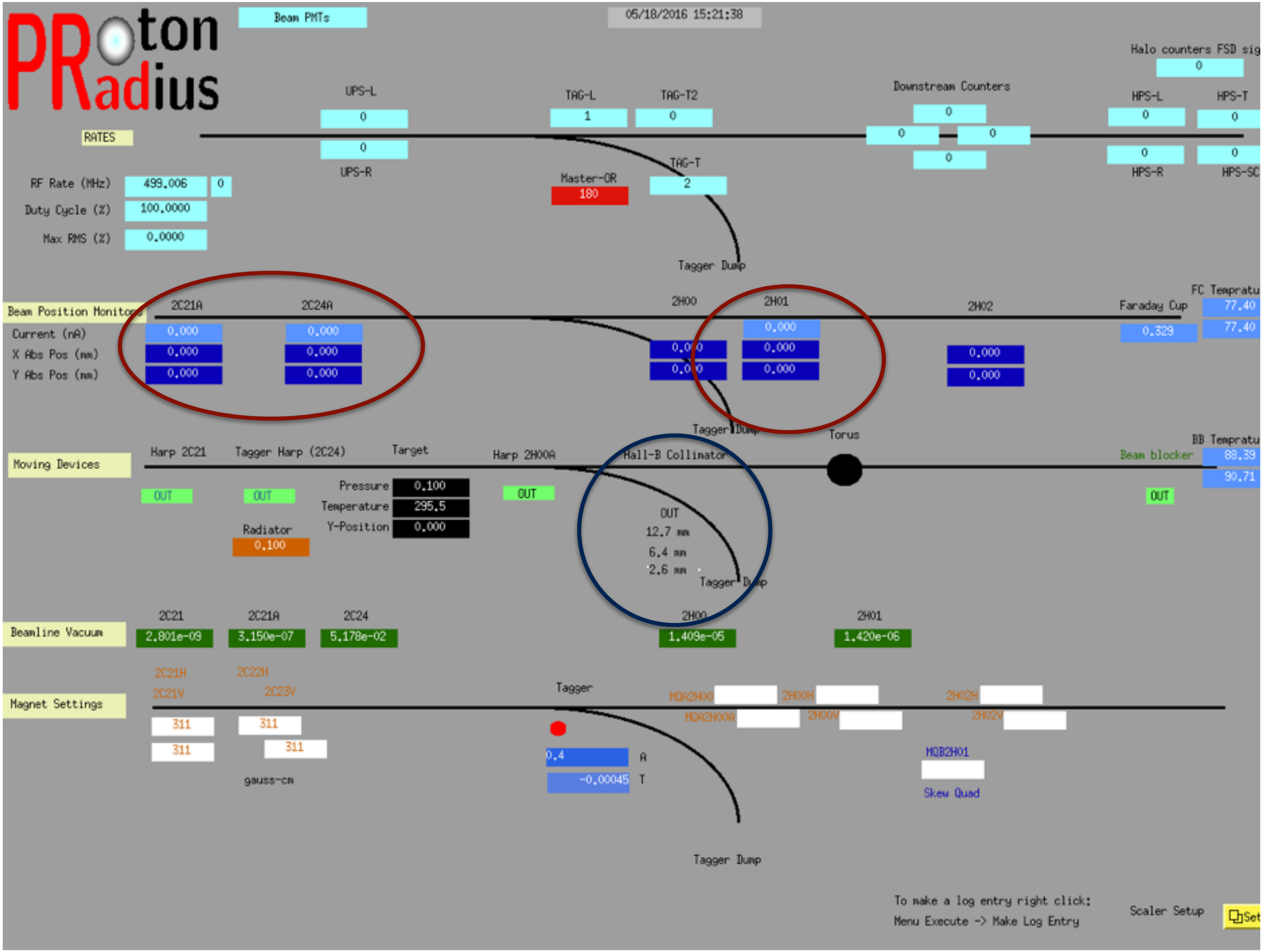
PRoton Radius
Beam PMTs
05/18/2016 15:21:38
Halo counters FSD sig
UPS-L
TAG-L
TAG-T2
Downstream Counters
HPS-L
HPS-T
RATES
UPS-R
Master-OR
TAG-T
HPS-R
HPS-SC
RF Rate (MHz)
Duty Cycle (%)
Max RMS (%)
Tagger Dump
Beam Position Monitors
2C21A
2C24A
2H00
2H01
2H02
Faraday Cup
FC Tempratu
Current (nA)
X Abs Pos (mm)
Y Abs Pos (mm)
Moving Devices
Harp 2C21
Tagger Harp (2C24)
Target
Harp 2H00A
Hall-B Collimator
Torus
BB Tempratu
Beam blocker
Pressure
Temperature
Y-Position
OUT
Radiator
12.7 mm
6.4 mm
2.6 mm
Beamline Vacuum
2C21
2C21A
2C24
2H00
2H01
2.801e-09
3.150e-07
5.178e-02
1.409e-05
1.420e-06
Magnet Settings
2C21H
2C21V
2C22H
2C23V
Tagger
MQA2H00
MQA2H00A
2H00H
2H00V
2H02H
2H02V
MQB2H01
Skew Quad
gauss-cm
To make a log entry right click:
Menu Execute -> Make Log Entry
Scaler Setup

Fig. 2

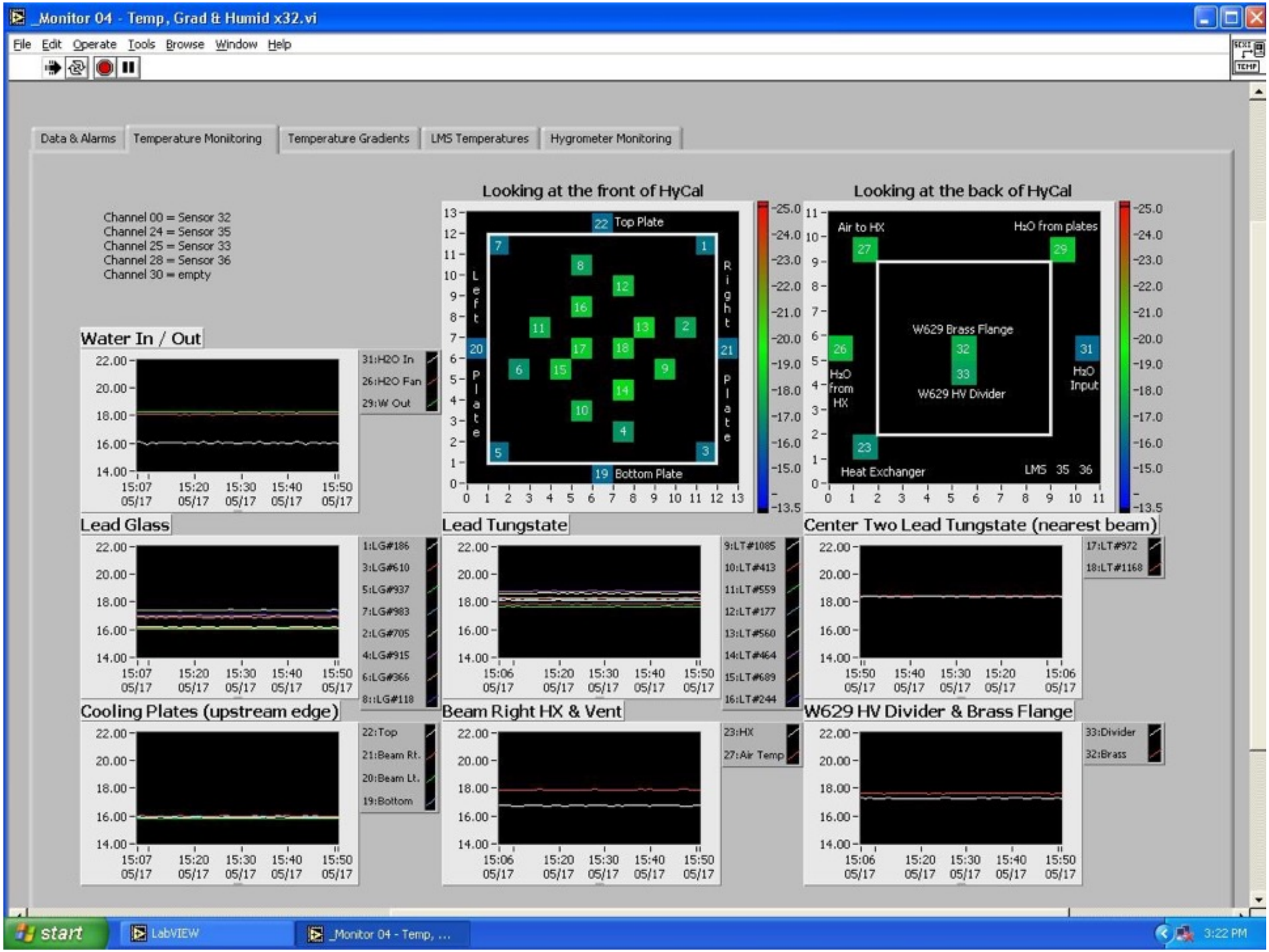
_Monitor 04 - Temp, Grad & Humid x32.vi
File Edit Operate Tools Browse Window Help
Data & Alarms
Temperature Monitoring
Temperature Gradients
LMS Temperatures
Hygrometer Monitoring
Channel 00 = Sensor 32
Channel 24 = Sensor 35
Channel 25 = Sensor 33
Channel 28 = Sensor 36
Channel 30 = empty
Looking at the front of HyCal
Looking at the back of HyCal
22 Top Plate
19 Bottom Plate
Left Plate
Right Plate
Air to HX
H2O from plates
W629 Brass Flange
W629 HV Divider
H2O from HX
H2O Input
Heat Exchanger
LMS 35 36
Water In / Out
31:H2O In
26:H2O Fan
29:W Out
Lead Glass
Lead Tungstate
Center Two Lead Tungstate (nearest beam)
Cooling Plates (upstream edge)
Beam Right HX & Vent
W629 HV Divider & Brass Flange
start
LabVIEW
_Monitor 04 - Temp, ...
3:22 PM

Fig. 3

Fig. 4

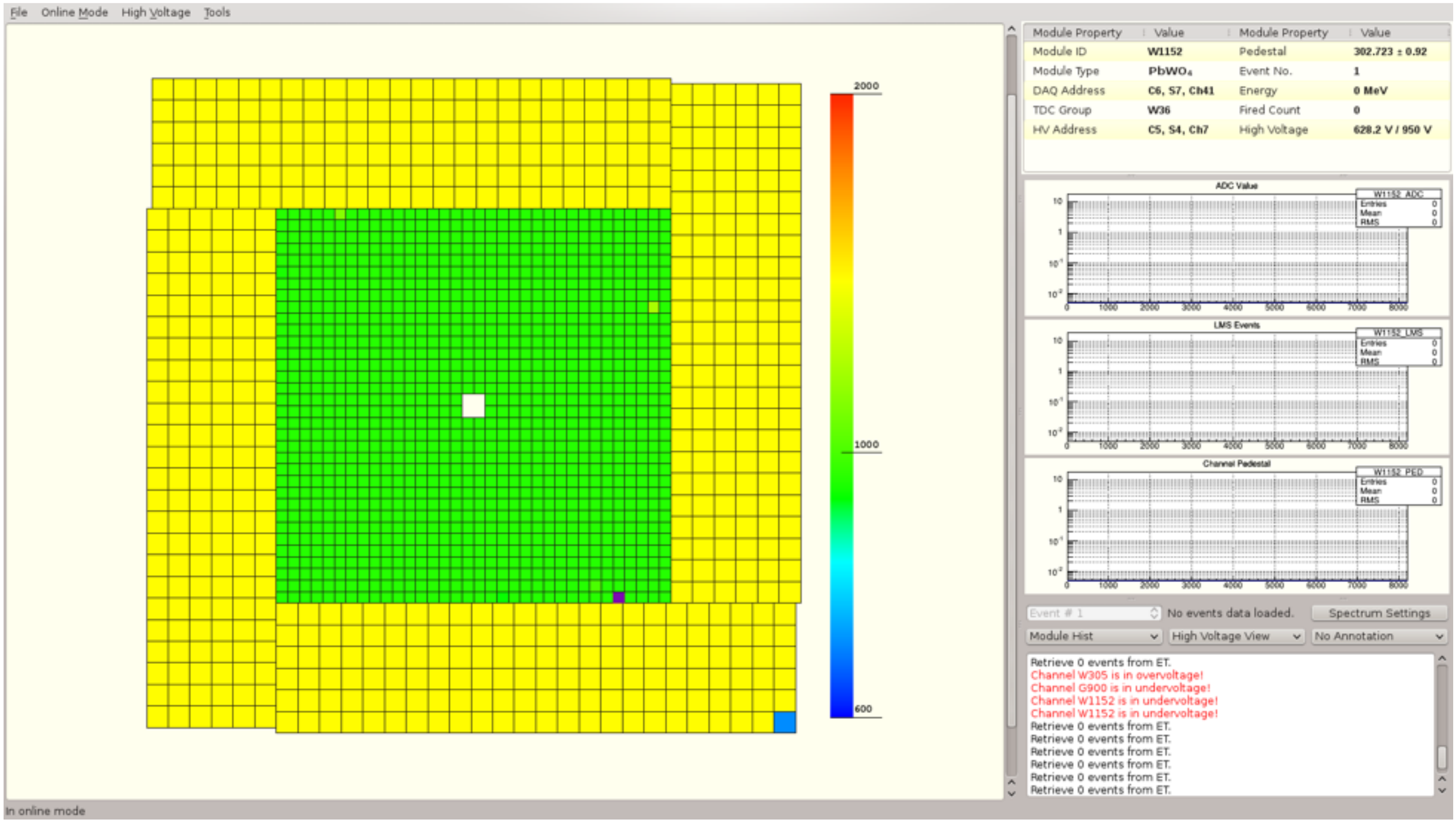
File
Online Mode
High Voltage
Tools
2000
1000
600
Module Property
Value
Module Property
Value
Module ID
W1152
Pedestal
302.723 ± 0.92
Module Type
PbWO4
Event No.
1
DAQ Address
C6, S7, Ch41
Energy
0 MeV
TDC Group
W36
Fired Count
0
HV Address
C5, S4, Ch7
High Voltage
628.2 V / 950 V
ADC Value
W1152_ADC
Entries 0
Mean 0
RMS 0
LMS Events
W1152_LMS
Entries 0
Mean 0
RMS 0
Channel Pedestal
W1152_PED
Entries 0
Mean 0
RMS 0
Event # 1
No events data loaded.
Spectrum Settings
Module Hist
High Voltage View
No Annotation
Retrieve 0 events from ET.
Channel W305 is in overvoltage!
Channel G900 is in undervoltage!
Channel W1152 is in undervoltage!
Channel W1152 is in undervoltage!
Retrieve 0 events from ET.
Retrieve 0 events from ET.
Retrieve 0 events from ET.
Retrieve 0 events from ET.
Retrieve 0 events from ET.
Retrieve 0 events from ET.
In online mode

Fig. 5

Module

GEM 1

HV_Status

S1=MAN

Set_Voltage (V)

0

V_Set

0.00 V

V_Measure(-)

4005.20 V

I_Measure

727.100 uA

I_Trip

0.000 mA

V_Ramp

002 V

Clear_Error_Bit

Current

I(uA) vs Sample

I/Sample

histo

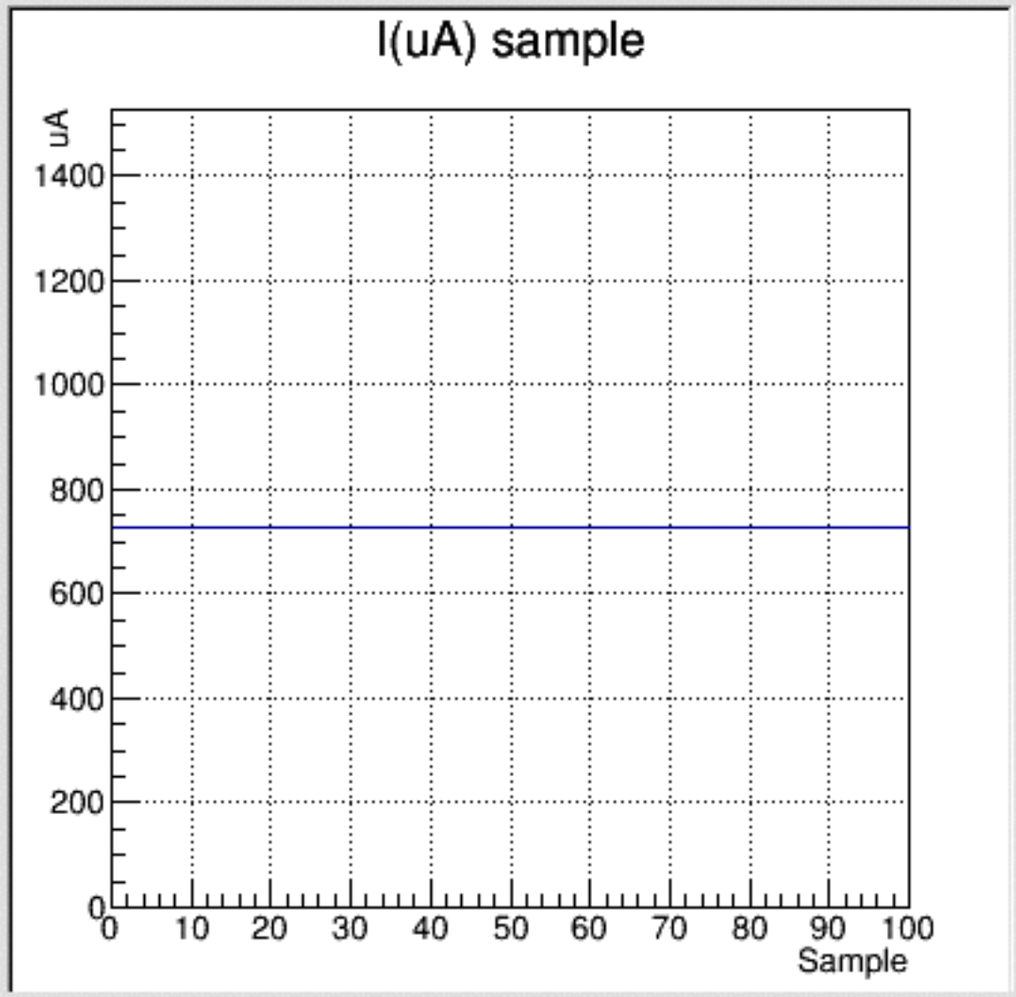

Fig. 6

Fig. 7

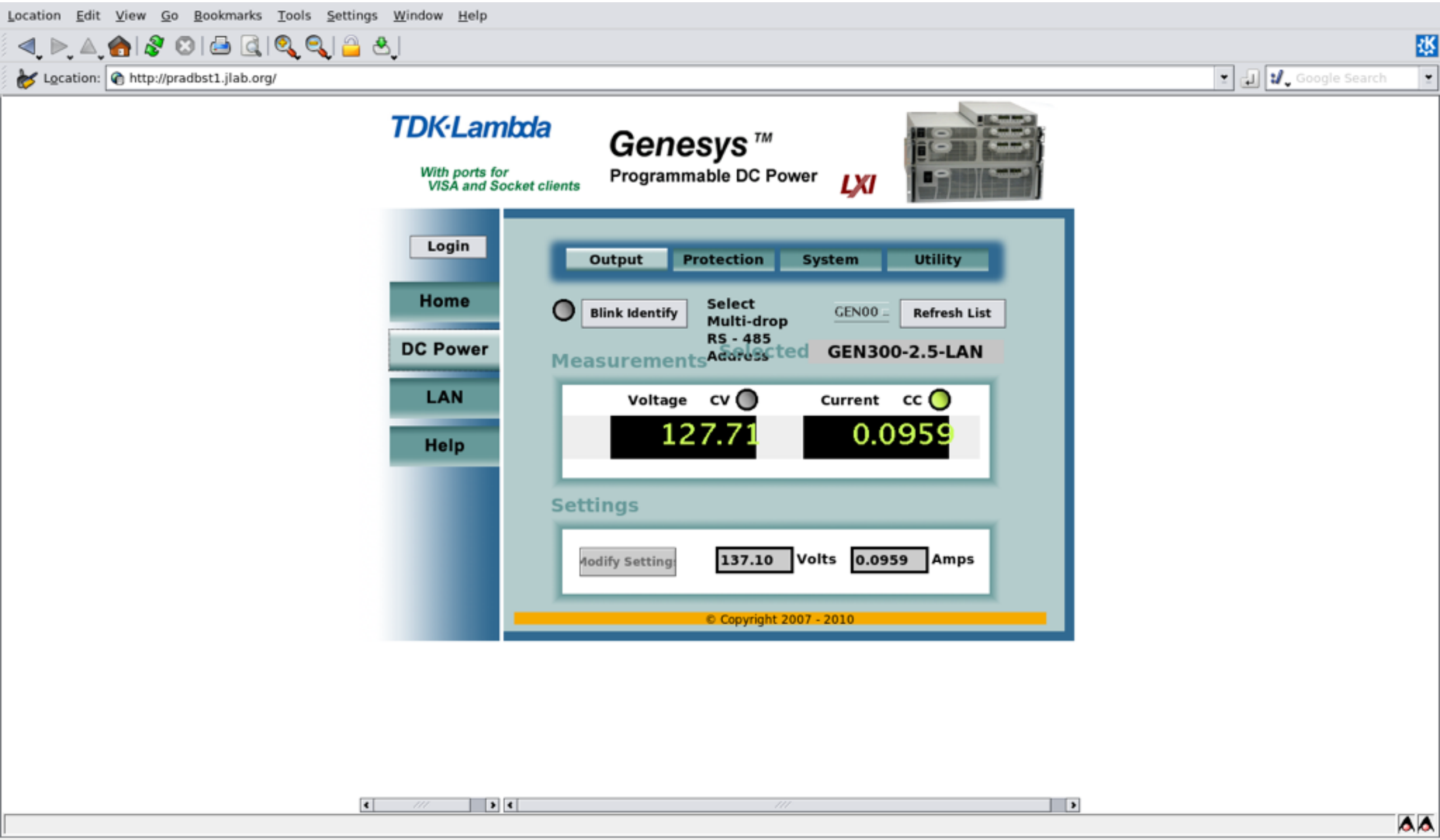
Location Edit View Go Bookmarks Tools Settings Window Help
Location: http://pradbst1.jlab.org/
Google Search
TDK·Lambda
With ports for VISA and Socket clients
Genesys™
Programmable DC Power
LXI
Login
Home
DC Power
LAN
Help
Output
Protection
System
Utility
Blink Identify
Select Multi-drop RS - 485 Address
GEN00
Refresh List
Measurements
Selected
GEN300-2.5-LAN
Voltage
CV
Current
CC
127.71
0.0959
Settings
Modify Settings
137.10
Volts
0.0959
Amps
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Fig. 8