RHIC

CRYOGENICS SYSTEM

Time meeting

1-28-2014

STATUS

RHIC COOLDOWN

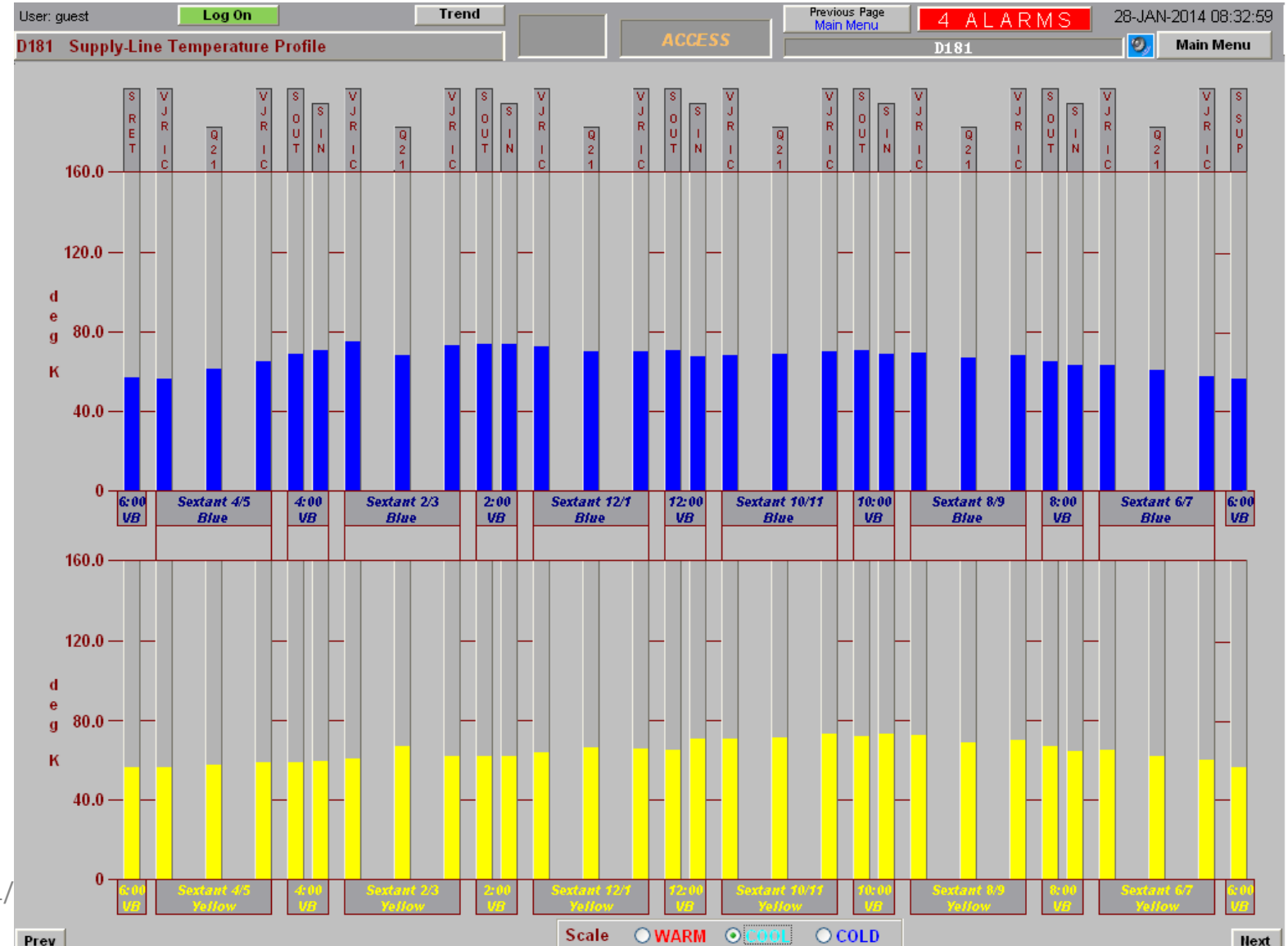
IP10: E-LENS

IP4: 56MHZ

IP2: CeC

AGS COLD SNAKE

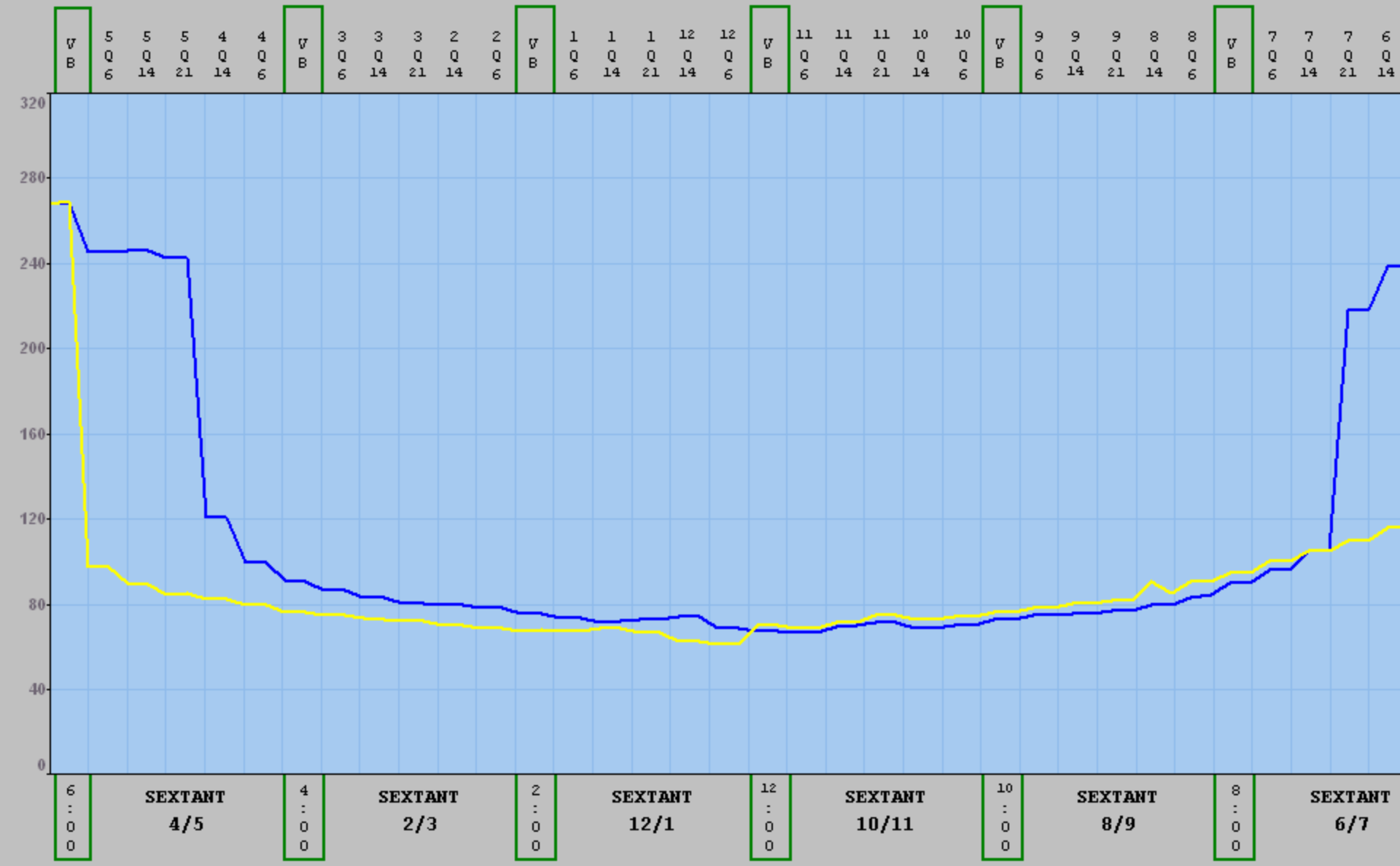
RHIC: COOLDOWN



User: guest | Log On | Trend | Previous Page Main Menu | 4 ALARMS | 28-JAN-2014

D179 Recooler Temperature Profile | ACCESS | D179 | Main

Ring Recooler In/Out Temperature Profile

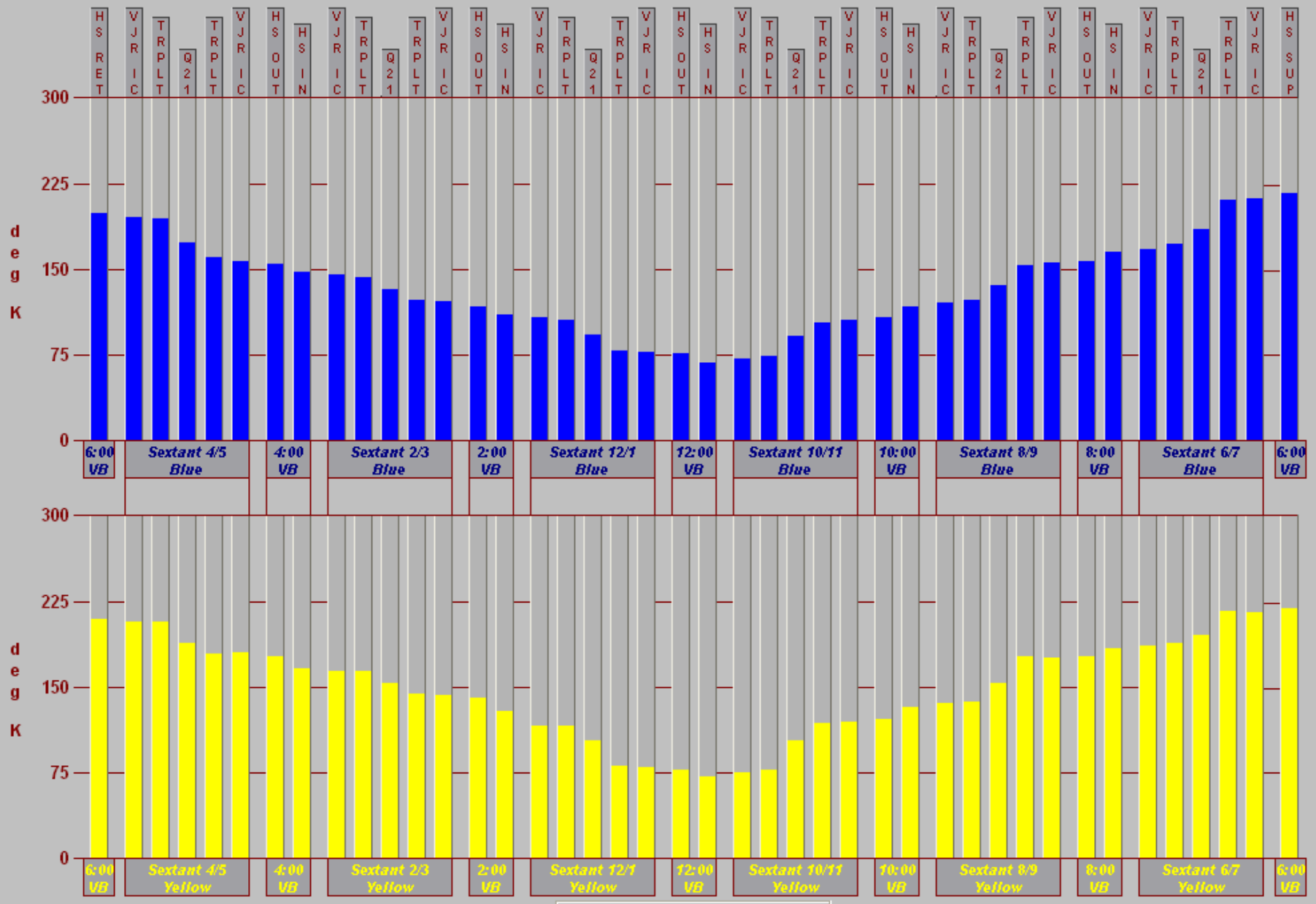


Scale
- WARM
- COOL

Mode
- Online
- Historical
- Normal
- Overnight
- Fast Loop
- Slow Loop

User: guest | Log On | Trend | Previous Page Main Menu | 4 ALARMS | 28-JAN-2014 08:35:34

D183 Heat Shield Temperature Profile | ACCESS | Header | Main Menu



Prev | Scale WARM COOL | Next

Liquid helium delivery

- 1st Tanker Liquid helium delivered
- 2nd Tanker Thursday Jan 23 delivered
- 3rd Tanker Jan 29/30
- 4th Tanker Feb 4

AGS COLD SNAKE

- Cryocooler coldhead tests
  - Since the coldhead sleeveS is mounted in the cryostat : Tested all coldheads in separate new coldhead pressure boundary sleeve for our new spare coldhead
  - 1.5 W at 4.2K
  - 3 coldheads passed
  - 1 cold head performing at about 0.5W
  - new spare coldhead

IP10 E-LENS: RECAP

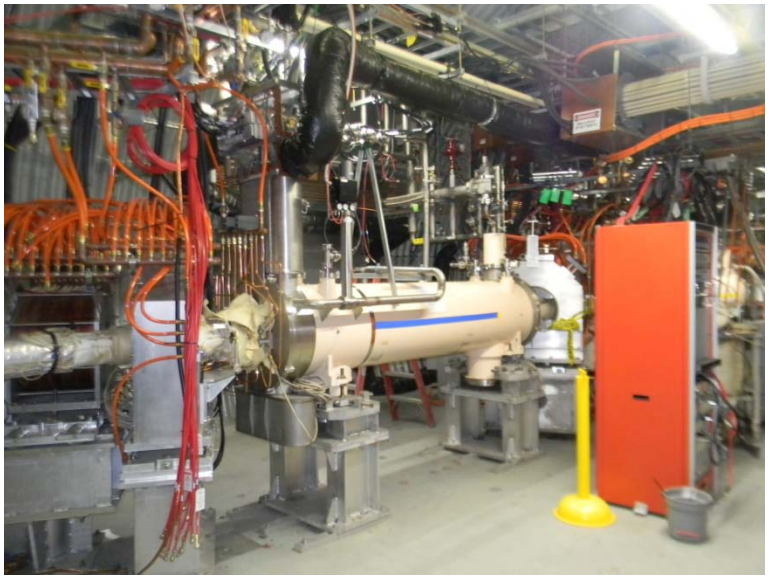
- SUMMER SHUTDOWN
  - FIELD UNIFORMITY MEASUREMENTS, TEST BOTH SOLENOIDS ON DEWARS
  - BLUE RECONFIGURATION 180°FLIP

    PRESSURE TESTED
- STATUS:

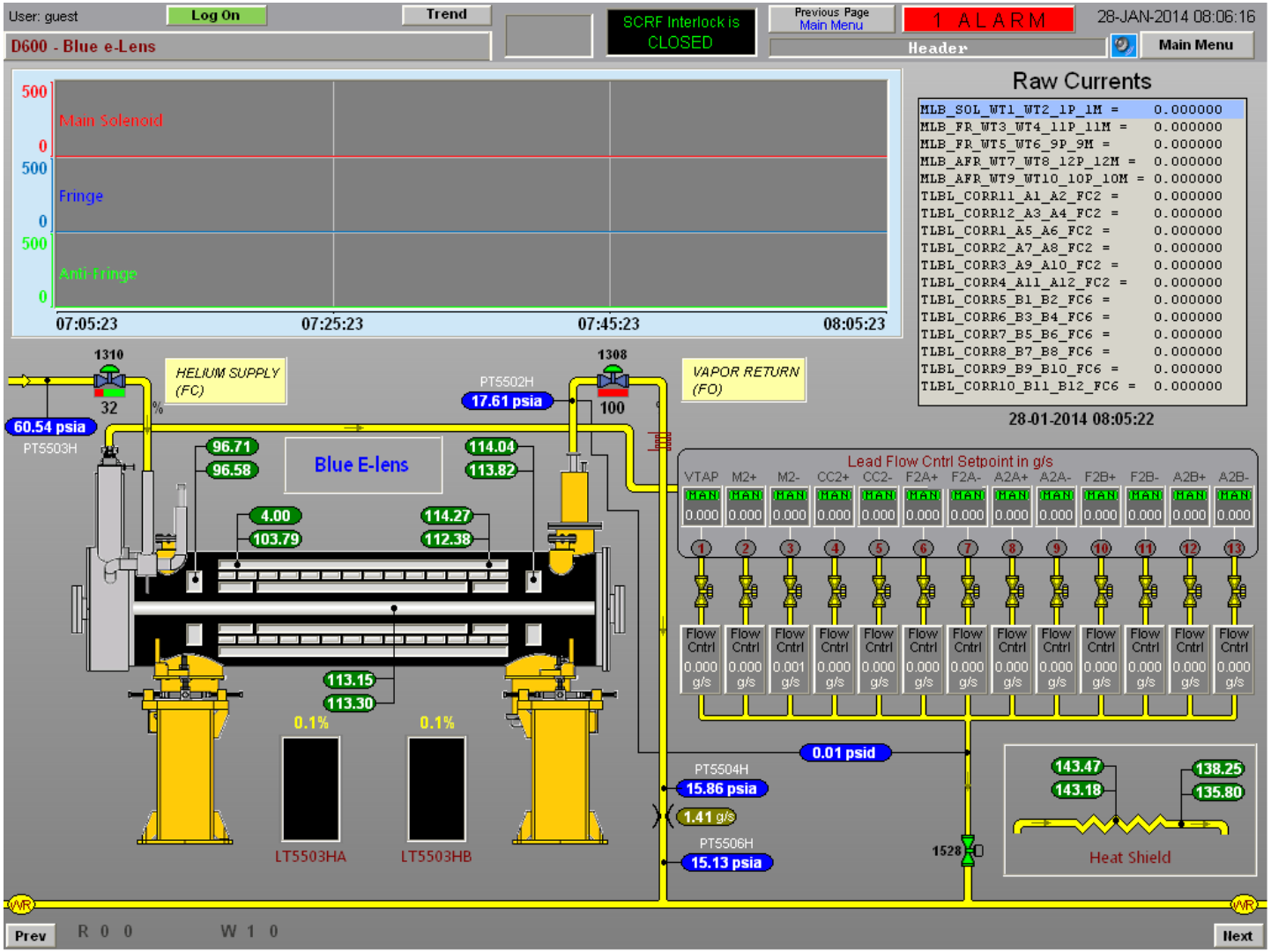
  COOLDOWN: 50K WAVE

  COOLDOWN FEB 4: WITH RHIC 4K WAVE

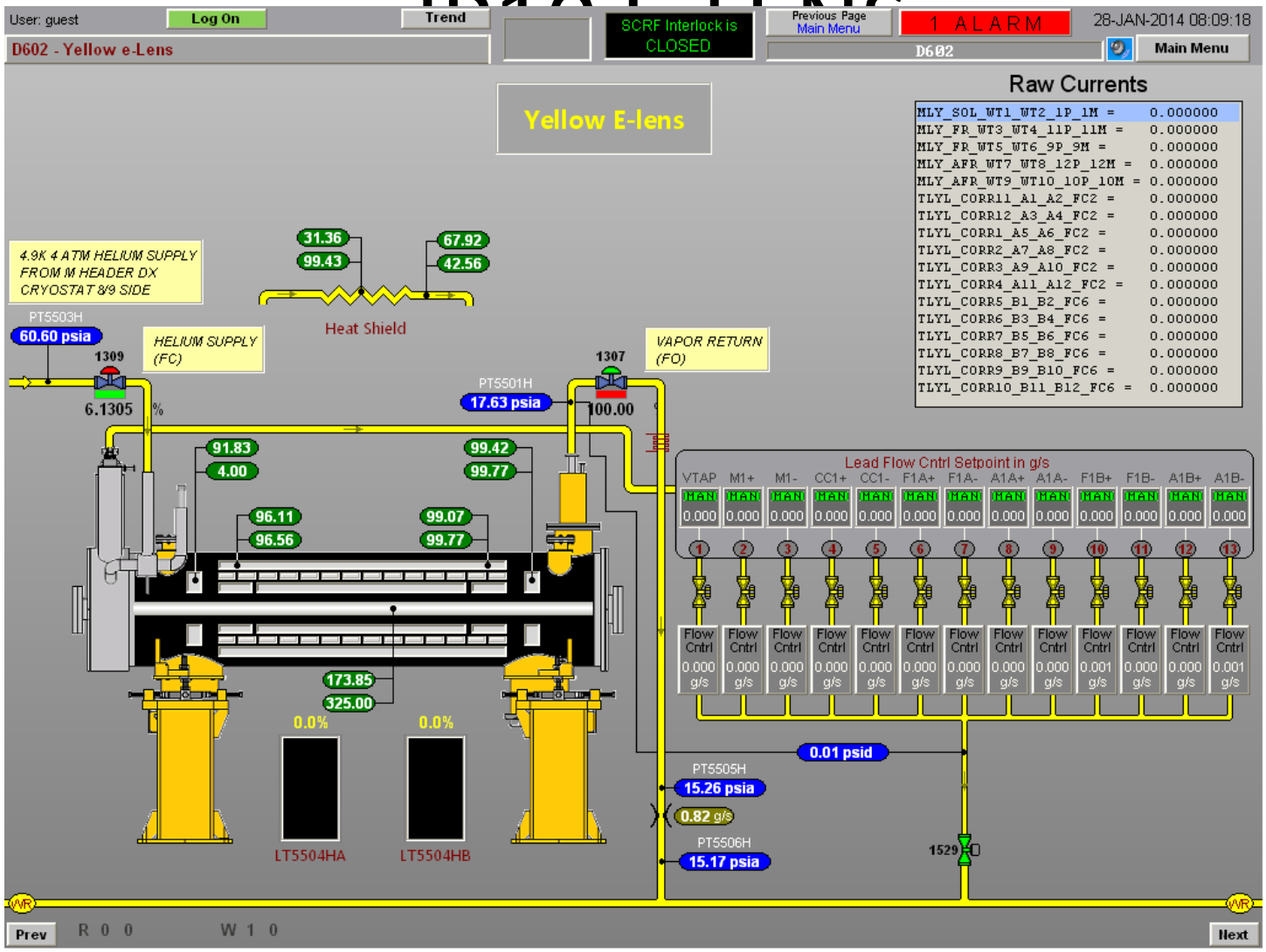
IP10 E-LENS



IP10 E-LENS


User: guest
Log On
Trend
SCRF Interlock is CLOSED
Previous Page
Main Menu
1 ALARM
28-JAN-2014 08:06:16
D600 - Blue e-Lens
Header
Main Menu
Main Solenoid
Fringe
Anti-Fringe
07:05:23
07:25:23
07:45:23
08:05:23
Raw Currents
MLB_SOL_WT1_WT2_1P_1M = 0.000000
MLB_FR_WT3_WT4_11P_11M = 0.000000
MLB_FR_WT5_WT6_9P_9M = 0.000000
MLB_AFR_WT7_WT8_12P_12M = 0.000000
MLB_AFR_WT9_WT10_10P_10M = 0.000000
TLBL_CORR11_A1_A2_FC2 = 0.000000
TLBL_CORR12_A3_A4_FC2 = 0.000000
TLBL_CORR1_A5_A6_FC2 = 0.000000
TLBL_CORR2_A7_A8_FC2 = 0.000000
TLBL_CORR3_A9_A10_FC2 = 0.000000
TLBL_CORR4_A11_A12_FC2 = 0.000000
TLBL_CORR5_B1_B2_FC6 = 0.000000
TLBL_CORR6_B3_B4_FC6 = 0.000000
TLBL_CORR7_B5_B6_FC6 = 0.000000
TLBL_CORR8_B7_B8_FC6 = 0.000000
TLBL_CORR9_B9_B10_FC6 = 0.000000
TLBL_CORR10_B11_B12_FC6 = 0.000000
28-01-2014 08:05:22
1310
HELIUM SUPPLY (FC)
32
60.54 psia
PT5503H
1308
PT5502H
17.61 psia
100
VAPOR RETURN (FO)
96.71
96.58
Blue E-lens
114.04
113.82
4.00
103.79
114.27
112.38
113.15
113.30
0.1%
0.1%
LT5503HA
LT5503HB
Lead Flow Cntrl Setpoint in g/s
VTAP M2+ M2- CC2+ CC2- F2A+ F2A- A2A+ A2A- F2B+ F2B- A2B+ A2B-
Flow Cntrl
0.01 psid
PT5504H
15.86 psia
1.41 g/s
PT5506H
15.13 psia
1528
143.47
143.18
138.25
135.80
Heat Shield
Prev
R 0 0
W 1 0
Next

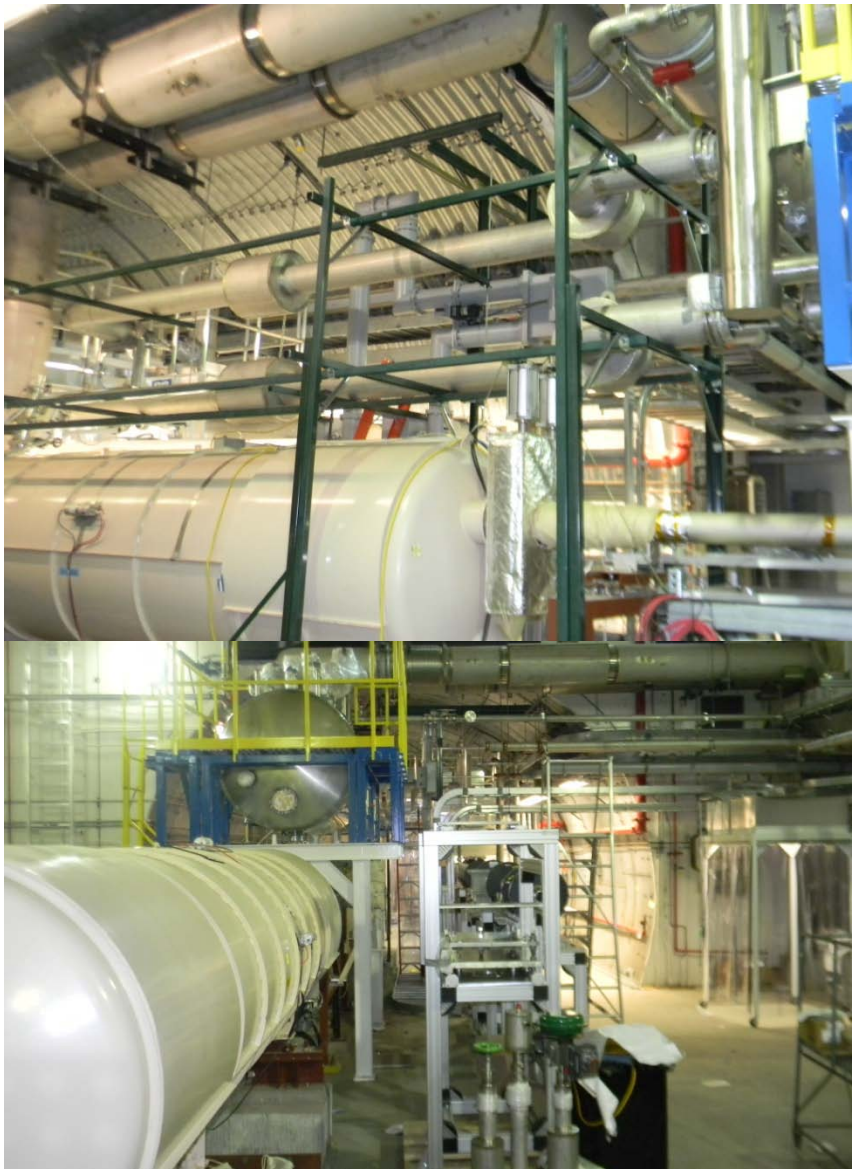
ID10-5 LENS


User: guest
Log On
Trend
D602 - Yellow e-Lens
SCRF Interlock is CLOSED
Previous Page
Main Menu
1 ALARM
28-JAN-2014 08:09:18
D602
Main Menu
Yellow E-lens
Raw Currents
MLY_SOL_WT1_WT2_1P_1M = 0.000000
MLY_FR_WT3_WT4_11P_11M = 0.000000
MLY_FR_WT5_WT6_9P_9M = 0.000000
MLY_AFR_WT7_WT8_12P_12M = 0.000000
MLY_AFR_WT9_WT10_10P_10M = 0.000000
TLYL_CORR11_A1_A2_FC2 = 0.000000
TLYL_CORR12_A3_A4_FC2 = 0.000000
TLYL_CORR1_A5_A6_FC2 = 0.000000
TLYL_CORR2_A7_A8_FC2 = 0.000000
TLYL_CORR3_A9_A10_FC2 = 0.000000
TLYL_CORR4_A11_A12_FC2 = 0.000000
TLYL_CORR5_B1_B2_FC6 = 0.000000
TLYL_CORR6_B3_B4_FC6 = 0.000000
TLYL_CORR7_B5_B6_FC6 = 0.000000
TLYL_CORR8_B7_B8_FC6 = 0.000000
TLYL_CORR9_B9_B10_FC6 = 0.000000
TLYL_CORR10_B11_B12_FC6 = 0.000000
4.9K 4 ATM HELIUM SUPPLY FROM M HEADER DX CRYOSTAT 8/9 SIDE
31.36
99.43
67.92
42.56
Heat Shield
PT5503H
60.60 psia
1309
HELIUM SUPPLY (FC)
6.1305 %
1307
VAPOR RETURN (FO)
PT5501H
17.63 psia
100.00
91.83
4.00
99.42
99.77
96.11
96.56
99.07
99.77
173.85
325.00
0.0%
0.0%
LT5504HA
LT5504HB
Lead Flow Cntrl Setpoint in g/s
VTAP M1+ M1- CC1+ CC1- F1A+ F1A- A1A+ A1A- F1B+ F1B- A1B+ A1B-
MAN 0.000
Flow Cntrl 0.000 g/s
Flow Cntrl 0.001 g/s
0.01 psid
PT5505H
15.26 psia
0.82 g/s
PT5506H
15.17 psia
1529
Prev
R 0 0
W 1 0
Next

IP-2 CeC: PHASE 1

- WARM PIPING & compressor
  - To and from small recovery compressor complete.
- Cryo Lines field joints
  - Cryo lines RIGGED IN PLACE
  - Welding will continue depending on availability
- Return line heater assembly from phase separator
  - To be sent out for RFQ

IP-2 CeC



IP-4: 56MHZ SYSTEM

- Mon 27:
  - Cryo: Interface stack rigged in
  - Survey: 56 mHz cryomodule
- Tues 28:
  - Cryo: Field joints and setup Interface stack.
  - Cryo: Final cable trays install with Genie Boom
  - Elec: Feedthru opening for cable compressor room
  - Vacuum: Cleanroom: tie-in Ion pump (IP-side) to gate valve 56MHz
- Wed 29:

  Cryo: Con't Field joint Cryo jumper, process lines.

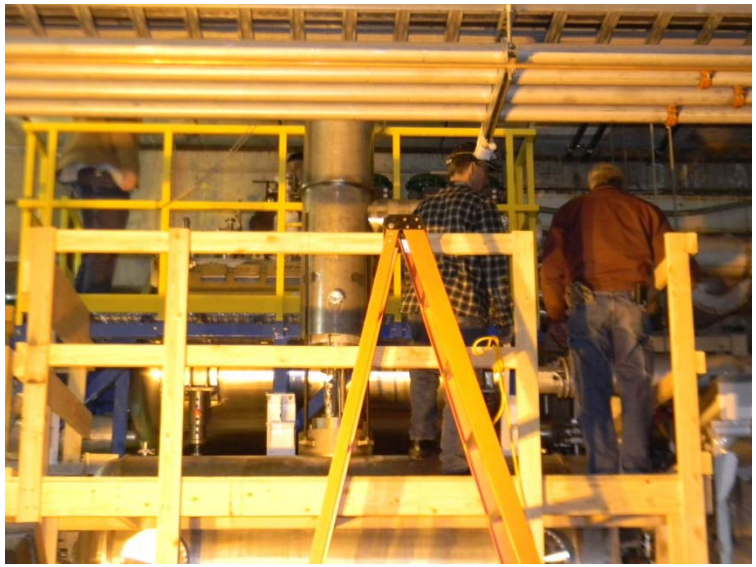
  Final cable trays install with Genie Boom

  wiring /termination con't

  UPS Install

  Vacuum: Cleanroom: tie-in Ion pump (DX-side)
- Thu 30
  - Cryo: Con't Field joint Cryo jumper, process lines.
  - Cryo: Con't wiring /termination/checkout
  - RF: Start cavity conditioning
  - Vacuum: AC Dipoles install
- Fri 31
  - Cryo: Con't Field joint Cryo jumper, process lines.
  - Cryo: Con't wiring /termination/checkout
  - Vacuum: AC Dipoles install
  - Safety Walk-thru #1
  - RF: Cavity conditioning (nights)
- Sat 1
  - Cryo: Pressure test process lines
  - Cryo: Mass spec Leak check
  - Cryo: Con't wiring /termination/checkout
  - Vacuum: Beam line bake
  - RF: Cavity conditioning (nights)

IP-4: 56MHZ SYSTEM

- Sun 2
  - Cryo: Vacuum jacket closeout
  - Cryo: Con't wiring /termination/checkout
  - Vacuum: Beam line bake
  - RF: Cavity conditioning (nights)
- Mon 3
  - Cryo: Vacuum jacket closeout
  - Cryo: Con't wiring /termination/checkout
  - Vacuum: Install turbo
  - Vacuum: Beam line bake
  - RF: Cavity conditioning (nights)
- Tue 4
  - Cryo: Jacket Mass spec Leak check
  - Cryo: Con't wiring /termination/checkout
  - Vacuum: Beam line bake
  - RF: Cavity conditioning (nights)
- Wed 5
  - Cryo: Con't wiring /termination/checkout
  - Vacuum: Insulating vacuum pumpdown
  - Vacuum: Beam line bake
  - RF: Cavity conditioning (nights)
- Thu 6
  - Cryo: Con't wiring /termination/checkout
  - Safety Walk-thru #2
  - RF: Cavity conditioning (nights)
- Fri 7
  - Cryo: Con't wiring /termination/checkout
  - Cooldown 56 cavity
  - RF: Cavity conditioning (nights)
- Sat 8
  - Cooldown 56 cavity
- Sun 9
  - Beam

IP-4: 56MHZ SYSTEM