

Shift instruction for the Straws

Alarm

In case of Straw alarm, please click the Straw button.

An alarm is indicated by the colors **red** or **orange** in the Straw button.

DETECTOR CONTROL SYSTEM

operator

Exit

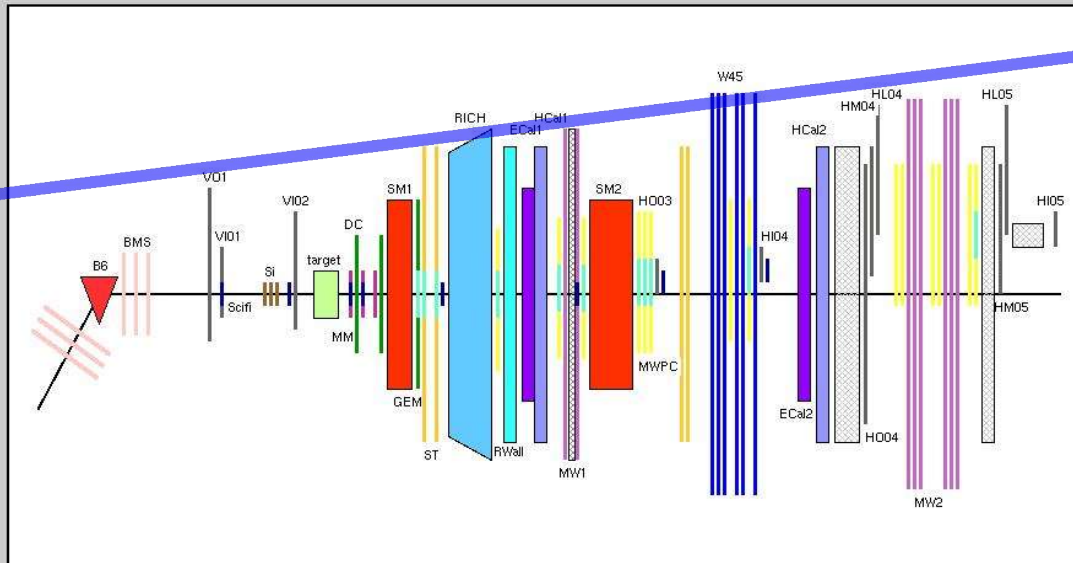
14:34:27 Monday 21.08.2006



HOME

- SCIFI Silicon
- BMS W45
- MW1 MW2
- GEM HOD
- RICH RICH_Wall
- MM DC
- MWPC Straw
- DAQ Target
- Magnets Environ
- DCS Ecal2

s	p	time	object	alert text	value	ackno	detail



Shift Instructions for Straws:

Straw Main Panel

After clicking the Straw button, you get this panel. There are alarms for:

- Gas System
- Low Voltage
- Temperature
- High Voltage

If any of the green fields turned red or orange, please click on it.

DETECTOR CONTROL SYSTEM

operator 14:35:22 Monday 21.08.2006

ALARMS

s	p	time	object	alert text	value	ackno	detail

HOME

- SCIFI Silicon
- BMS W45
- MW1 MW2
- GEM HOD
- RICH RICH_Wall
- MM DC
- MWPC Straw
- DAQ Target
- Magnets Environ
- DCS Ecal2

COMPASS DCS

Straw HV SYSTEM

TEMPERATURES

LV System Gas System

Gallery HV

STRAWS

Gas barrack PLC2

Shift Instructions for Straws

Gas Alarm

If there is any gas field marked with **red**, inform a straw expert.

If the gas system has been stopped more than 5 minutes, switch off High Voltage on ALL chamber (see HV alarm and click Off instead of On)

The screenshot displays the DETECTOR CONTROL SYSTEM interface. At the top, it shows the user 'operator' and the time '14:41:50 Monday 21.08.2006'. The interface is divided into several sections:

- ALARMS:** A table with columns for status (s), priority (p), time, object, alert text, value, ackno, and detail. There are buttons for 'All Alarms' and 'Masked Alarms'.
- HV SYSTEM:** A grid of buttons for various detectors (e.g., 2X1_DL15, 2Y1_DL13, 2V1_DL14, 2U1_DL03, 2Y2_DL10, 2X2_DL09, 3X1_DL08, 3Y1_DL07, 3V1_DL06, 3U1_DL02, 3Y2_DL01, 3X2_DL05, 6V1_DL18, 6U1_DL12, 6X1_DL11) and temperature sensors (ST02, ST03, DL16-ST05). There are also buttons for 'LV System' and 'Gas System'.
- Gas system for Straws:** This section contains flowmeters and various alarm indicators. The 'Argon flow value' is 96.70 l/h, and the 'Argon Fault' indicator is highlighted in red. Other indicators include CF4 flow value (12.10 l/h), CO2 flow value (12.10 l/h), CF4 in gas mixture (10.04 %), and CO2 in gas mixture (10.01 %).
- Compressor / Detector / Rex:** A section with multiple 'FALSE' indicators for various faults and alarms, such as Compressor Fault, Hp Compressor Fault, Hp Detector Fault, Rex Fault, Rex A13 Alarm, Rex A101 Fault, Rex A102 Fault, Rex A103 Fault, Compressor Alarm, Lp Detector Fault, and Rex Def Alarm.
- Status:** A section with a 'Compressor ON' indicator set to 'TRUE'.

Shift instructions for Straws:

Low voltage Alarm

If there is any Low Voltage field marked with **red**, inform a straw expert.

The screenshot displays the DETECTOR CONTROL SYSTEM interface. At the top, it shows the user 'operator' and the time '14:42:13 Monday 21.08.2006'. The interface is divided into several sections:

- ALARMS:** A table with columns for status (s), priority (p), time, object, alert text, value, acknowledgement (ackno), and detail. It includes buttons for 'All Alarms' and 'Masked Alarms'.
- HV SYSTEM:** A grid of buttons representing different detector layers: 2X1_DL15, 2Y1_DL13, 2V1_DL14, 2U1_DL03, 2Y2_DL10, 2X2_DL09, 3X1_DL08, 3Y1_DL07, 3V1_DL06, 3U1_DL02, 3Y2_DL01, 3X2_DL05, 6V1_DL18, 6U1_DL12, and 6X1_DL11.
- TEMPERATURES:** Buttons for ST02, ST03, and DL16-ST05, along with 'LV System' and 'Gas System' buttons.
- Lv System:** A table showing current readings for various crates. The 'Alarms' column for 'Straw_Lv_St05' is highlighted in red, indicating an alarm.

Crate	U1 (A)	U2 (A)	U3 (A)	U4 (A)	U5 (A)	U6 (A)	U7 (A)	U8 (A)	PowerOn	Alarms
Straw_Lv_St05	20.31	0.26	8.18	6.08	35.86	30.75	0.49	35.89	TRUE	Red
Straw_Lv_St02	36.28	28.02	33.77	33.38	27.79	35.61	38.51	38.21	TRUE	Green
Straw_Lv_St03	31.73	28.02	29.35	29.19	27.79	31.22	33.86	33.34	TRUE	Green

Shift Instructions for Straws:

Temperature Alarm

note: ST02 has more columns in the window

If any of the temperature fields went **red**, the cooling is probably not working (on ST03 or ST02)

In any cases of **red** temperature field :

- 1- Switch off Low voltage directly on the crate.
- 2- Inform a Straw expert

The screenshot shows the DETECTOR CONTROL SYSTEM interface. At the top, it displays 'operator' and the time '14:38:09 Monday 21.08.2006'. Below this is a navigation menu with buttons for 'HOME', 'SCIFI', 'BMS', 'MW1', 'GEM', 'RICH', 'MM', 'MWPC', 'DAO', 'Magnets', 'DCS', 'Silicon', 'W45', 'MW2', 'HOD', 'RICH_Wall', 'DC', 'Straw', 'Target', 'Environ', and 'Ecal2'. The main area is divided into several sections: 'ALARMS' with 'All Alarms' and 'Masked Alarms' buttons; 'HV SYSTEM' with a grid of temperature points (2X1_DL15 to 6X1_DL11); 'TEMPERATURES' with buttons for 'ST02', 'ST03', 'DL16-ST05', 'LV System', and 'Gas System'; and 'ST05 Temperatures and Humidities' which is further divided into 'ST05 V1', 'ST05 Y1', 'ST05 X1', and 'Humidities'. A blue arrow points to the 'ST05X1_TDS' field, which is highlighted in red, indicating an alarm. Other temperature fields are green, and humidity fields are white.

Shift Instructions for Straws:

High Voltage Alarm

DETECTOR CONTROL SYSTEM | operator | Exit | 14:35:39 Monday 21.08.2006

COMPASS DCS

HOME

- SCIFI Silicon
- BMS W45
- MW1 MW2
- GEM HOD
- RICH RICH_Wall
- MM DC
- MWPC Straw
- DAG Target
- Magnets Environ
- DCS Ecal2

ALARMS

All Alarms

Masked Alarms

Straw HV SYSTEM

Channel Name	v0()	vMon()	iMon()	VMax()	I0()	isOn	HwAlarms
St_Hv_DI15_02X1_6mm_0_PH	1640.000	1640.000	0.012	1640.000	20.000	TRUE	OK
St_Hv_DI15_02X1_6mm_1_Salev	1640.000	1640.000	0.004	1640.000	20.000	TRUE	OK
St_Hv_DI15_02X1_6mm_2	1640.000	1640.000					
St_Hv_DI15_02X1_6mm_3	1640.000	1640.000					
St_Hv_DI15_02X1_6mm_4_Ph	1640.000	1640.000					
St_Hv_DI15_02X1_6mm_5	1640.000	1640.000					
St_Hv_DI15_02X1_6mm_6	1640.000	1640.000					
St_Hv_DI15_02X1_6mm_7_Jura	1640.000	1640.000					
St_Hv_DI15_02X1_10mm_Salev	1780.000	1780.000					
St_Hv_DI15_02X1_10mm_1	1780.000	1780.000					
St_Hv_DI15_02X1_10mm_2	1780.000	1780.000					
St_Hv_DI15_02X1_10mm_3	1780.000	1780.000					
St_Hv_DI15_02X1_10mm_4	1780.000	1780.000					
St_Hv_DI15_02X1_10mm_Jura	1780.000	1780.000					
Notused1	1000.000	1000.000					
Notused2	1000.000	1000.000					

Straw 02X1 DoubleLayer 15:

Group operation: Channel Name v0() vMon() iMon() VMax() I0() isOn HwAlarms

On Off

Settings Trends Pop Window

Iseg Channel: St_Hv_DI15_02X1_6mm_5

Channel: dcs1:Iseg/can1/na32/ch05 Number: 05

Board: dcs1:Iseg/can1/na32 Slot: 0 Connector: HV

Crate: Straw crate 1 (gallery), Jura side

Hardware VLimit: 2500.000

Hardware ILimit: 32.012

Parameter	Setting	ReadBack	Units
VSet	1640	1640	
ITrip	20	20	

Commands: On OFF

Actual Values

Voltage: 1639.950

VMax: 1640.00 [Set]

Current: 0.012

RampSpeed: 20.00 V/s

KillEnable: TRUE True/False

vMon Last Modified: 2006.08.22 15:46:43.261

Status

- Software current trip reached [Clear Error]
- Channel reached I Limit [Clear Error]
- Channel reached V Limit [Clear Error]
- Channel ramping

Close

For any HV channel marked red or orange :

1-double click it

2-switch it on

All channel should always be switched on (note that St_Hv_DI09_02X2_6mm_4_PH and St_Hv_DI09_02X2_6mm_5 are to be (On in 2X2_DL09)switched on with HV = 0).

Never change the HV settings. If there are problems, please call an expert.

Shift Instructions for Straws: Reload Voltages

If voltages are lost, after a power cut for example, inform a straw expert and reload them:

- 1- Call a Straw expert, he will guide you through the next steps
- 2- Open export/import window
- 3- Browse setting files.
- 4- Chose a setting file.
- 5- Import the settings

The screenshot displays the DETECTOR CONTROL SYSTEM (DCS) interface. The main window shows the HV SYSTEM panel with a grid of status indicators for various straws (e.g., 2X1_DL15, 2Y1_DL13, 2V1_DL14, 2U1_DL03, 2Y2_DL10, 2X2_DL09, 3X1_DL08, 3Y1_DL07, 3V1_DL06, 3U1_DL02, 3Y2_DL01, 3X2_DL05, 6Y1_DL18, 6U1_DL12, 6X1_DL11). A 'Gallery' tab is selected, showing a schematic diagram of the detector components including SCIFI, BMS, MW1, GEM, RICH, MM, MWPC, DAQ, Magnets, and DCS. A file browser window is open, showing the directory path 'dcs/projects/compassdcs/' and a list of files with the filter 'dcs/projects/compassdcs/isegConfigFiles/*.Straw'. The 'Files' list includes files like '200806.Straw', 'HV04052006.Straw', 'HV10022006.Straw', 'HV16072006.Straw', 'HV17072006.Straw', 'HV18072006.Straw', 'HV19072006.Straw', 'HV20072006.Straw', 'HV21072006.Straw', 'HV22072006.Straw', 'david_testing.Straw', 'default-2006-250706.Straw', 'default-2006-290706.Straw', 'default-2006.Straw', 'default050806.Straw', 'default110806.Straw', 'default170806.Straw', and 'default_beamtime2006.Straw'. An 'Import/Export the settings of the ISEG channels' dialog is also visible, with the 'Import' section selected and the 'Start' button highlighted. A red arrow points from the 'Straw' icon in the HV SYSTEM panel to the file browser window. A blue arrow points from the 'Start' button in the dialog to the file browser window. A green arrow points from the 'Start' button in the dialog to the 'default170806.Straw' file in the file browser window.