

Short instructions for Captain

- In the following few slides I outline few important points that the captain needs to watch, during the exceptional situation when Cal shifter is not present.
- For any situation that is not outlined here and/or in doubt call the cal-on-call expert immediately
- Shifter schedule has the name of the on-call person and the pager number can be found on the monitor at the cal station or from the on-call list.
- Also when ever there is a possibility of a quiet time call an on-call expert.
- In case of emergency or unavailability of the on-call expert page 218-8489

➤ All power supply trips should cause run pause condition, and should be noticed by the DAQ shifter. But it is a good idea to keep watching the GUI once in a while (say once in every hour)

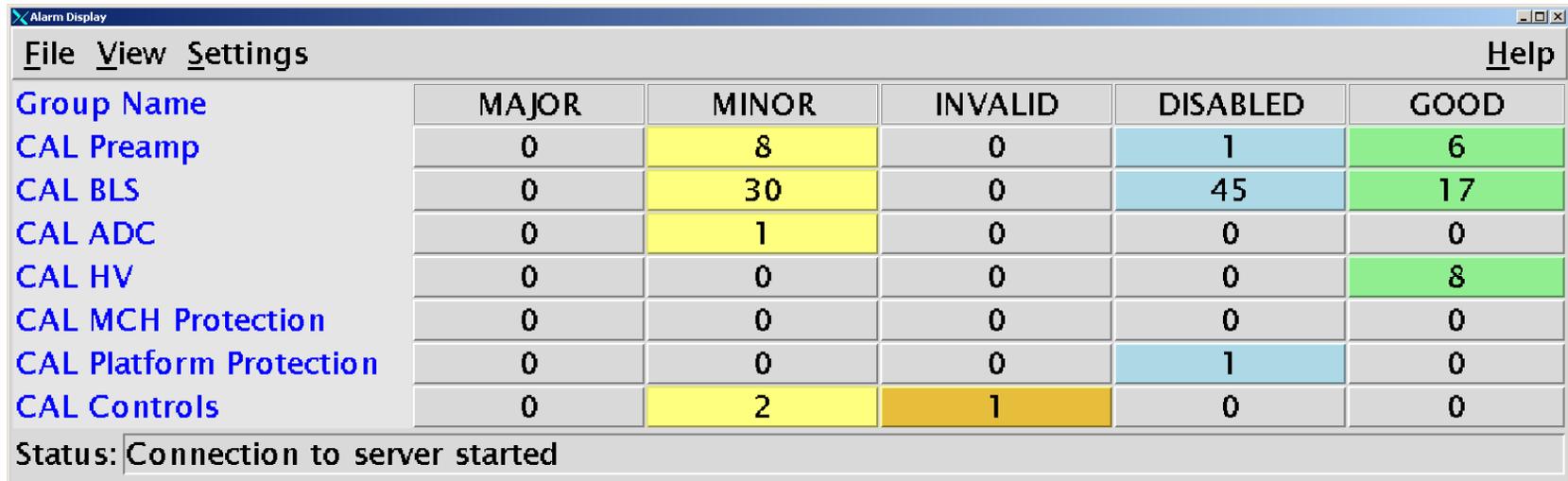
Its should be open on the upper left corner of cal station.

➤ Captain can open it by typing (on an xterm after doing setup d0online)

`start_alarm_display -c /online/config/cal/alarm/ad_cal.config &`

➤ For any major alarm immediately call on-call expert.

➤ Alarm GUI looks like the following



The screenshot shows a window titled "Alarm Display" with a menu bar containing "File", "View", "Settings", and "Help". Below the menu bar is a table with the following data:

Group Name	MAJOR	MINOR	INVALID	DISABLED	GOOD
CAL Preamp	0	8	0	1	6
CAL BLS	0	30	0	45	17
CAL ADC	0	1	0	0	0
CAL HV	0	0	0	0	8
CAL MCH Protection	0	0	0	0	0
CAL Platform Protection	0	0	0	1	0
CAL Controls	0	2	1	0	0

Below the table, the status bar displays: "Status: Connection to server started"

➤ At the beginning of every Global run look at the mode shift page.

➤ Everything should be green (there may be some flickering yellow or pink)

➤ Anything else should be notified immediately

➤ This GUI can be opened by doing

/online/config/cal/supplies/shift_mode &

And looks like the following

The screenshot shows a window titled "Calorimeter Power Supply Monitor Display -". The main content is a "Mode Shift" page with a table of crate status. The table has columns for Crate, TC MODE, STATUS, L3TRAN, ADC ERR, BLS MODE, ADC MODE, PED VERS, PULSER, OCC, and three reset buttons (Reset T&C, Reset ADC, Reset VBD). The status is "GUI initialization complete".

Crate	TC MODE	STATUS	L3TRAN	ADC ERR	BLS MODE	ADC MODE	PED VERS	PULSER	OCC	Reset T&C	Reset ADC	Reset VBD
EC North												
CRATE 0x40	Normal	0x10	0x5faa	0x0	Normal	0 Sign Sup	0xad	Pulser Off	0.14	Reset T&C	Reset ADC	Reset VBD
CRATE 0x41	Normal	0x10	0x5faa	0x0	Normal	0 Sign Sup	0xad	Pulser Off	0.12	Reset T&C	Reset ADC	Reset VBD
CRATE 0x4a	Normal	0x10	0x5faa	0x0	Normal	0 Sign Sup	0xad	Pulser Off	0.12	Reset T&C	Reset ADC	Reset VBD
CRATE 0x4b	Normal	0x10	0x5faa	0x0	Normal	0 Sign Sup	0xad	Pulser Off	0.09	Reset T&C	Reset ADC	Reset VBD
CC												
CRATE 0x42	Normal	0x10	0x5faa	0x0	Normal	0 Sign Sup	0xad	Pulser Off	0.07	Reset T&C	Reset ADC	Reset VBD
CRATE 0x43	Normal	0x10	0x5faa	0x0	Normal	0 Sign Sup	0xad	Pulser Off	0.10	Reset T&C	Reset ADC	Reset VBD
CRATE 0x48	Normal	0x10	0x5faa	0x0	Normal	0 Sign Sup	0xad	Pulser Off	0.10	Reset T&C	Reset ADC	Reset VBD
CRATE 0x49	Normal	0x10	0x5fab	0x0	Normal	0 Sign Sup	0xad	Pulser Off	0.10	Reset T&C	Reset ADC	Reset VBD
EC South												
CRATE 0x44	Normal	0x10	0x5fab	0x0	Normal	0 Sign Sup	0xad	Pulser Off	0.11	Reset T&C	Reset ADC	Reset VBD
CRATE 0x45	Normal	0x10	0x5fab	0x0	Normal	0 Sign Sup	0xad	Pulser Off	0.11	Reset T&C	Reset ADC	Reset VBD
CRATE 0x46	Normal	0x10	0x5fac	0x0	Normal	0 Sign Sup	0xad	Pulser Off	0.10	Reset T&C	Reset ADC	Reset VBD
CRATE 0x47	Normal	0x10	0x5fad	0x0	Normal	0 Sign Sup	0xad	Pulser Off	0.10	Reset T&C	Reset ADC	Reset VBD
T & C Control Board												
T&C CTRL 0x4c	Master	0x10	0x5fae							Reset T&C CTRL		
Global Buttons												
Global	Global T&C Reset	Global ADC Reset	Global VBD Reset	Reset VBD CTRL								

Status: GUI initialization complete

Reconnect Archiver Sun Dec 29 22:19:08 2002 Exit

➤ Run CalExamine at the beginning of every run.

Go to the Cal console , open a new xterm and do the following

```
>setup d0online
```

```
>d0ssh d0ol23
```

```
>setup histo
```

```
>histo &
```

```
>setup d0online
```

```
>cd /online/examines/scripts
```

```
>./cal_examine.sh
```

... after you see the message: command reader starting

```
init
```

```
start
```

➤ Now wait for 10 minutes of data taking and do the following

```
> cd /home/d0cal/Hot_Cells
```

```
> mv Hot_Cells Hot_Cells_XXXX (where XXXX is the run number)
```

```
> more Hot_Cells_XXXX
```

➤ If there are any hot cells with ET/event > 5 GeV or few hot cells call the on-call expert immediately. And also note down the finding on the logbook.

➤ Captain don't need to run L1calexamine but if the DAQ shifter or GM notices any trigger rate problem or Suspicious activity in L1 or L2 cal object, call the on-call expert immediately.