SVT Interlocks & Alarms Update

Matt Solt 10/16/2017

Hardware Interlocks

FEB Interlocks

supply/return at min/max of 16-26 (no changes)

Chiller power and flow interlocks are also on

Also switched svt supply/return in all GUIs



Hardware Interlocks

SVT Interlocks

supply/return at min/max of 10-25 (plan on 15 degrees chiller temp)

Was at -24 - +23 for supply and -24 - +14 for return

Supply interlocks are currently disabled since it is broken

Chiller power and flow interlocks are also on (flow previously off)



Hardware Interlocks

Vacuum - 1e-3 (previously turned off)

Currently no hybrid/FEB temp interlock (tough to do)



Software Interlocks

FEB Interlocks

supply/return at min/max of 16-26 for PLC (SW at 17-25)

Did not change



Software Interlocks

SVT Interlocks

supply/return at min/max of 10-25 for PLC (SW at 11.5-23.5)

Was at -24 - +23 for supply and -24 - +14 for return

Supply is currently on bypass since it's broken



Software Interlocks

Vacuum - PLC at 1e-3 and SW at 9e-4 (seems stable under 1.5e-5)

Beam interlocks are turned off

Currently no hybrid/FEB temp interlock (tough to do)

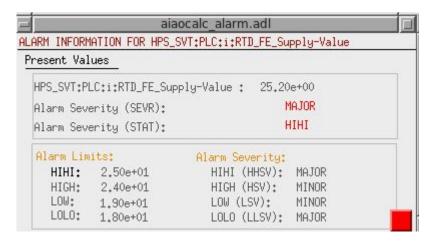


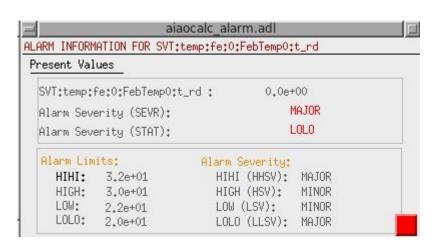
FEB Alarms

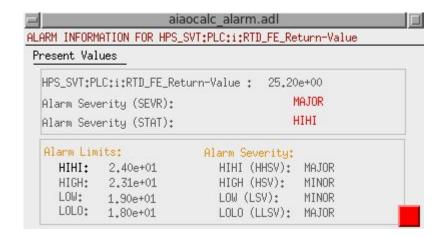
Return/supply and flow alarms are on

FEB temp alarms are also on

Nothing changed

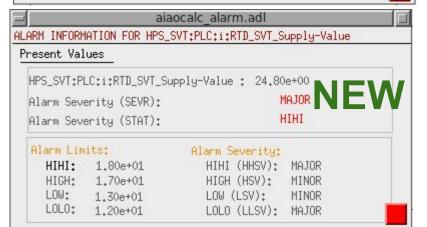


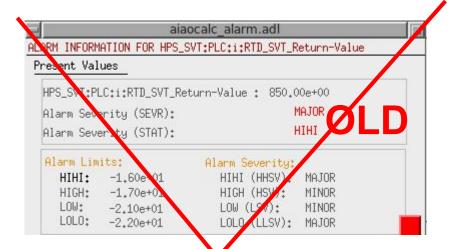


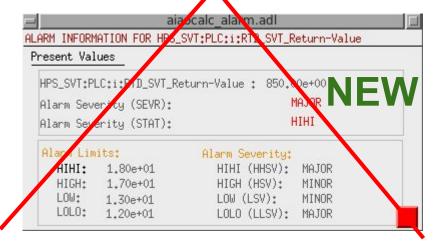


Hybrid Alarms



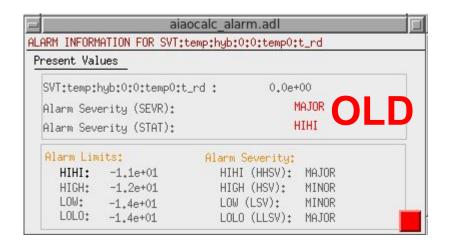


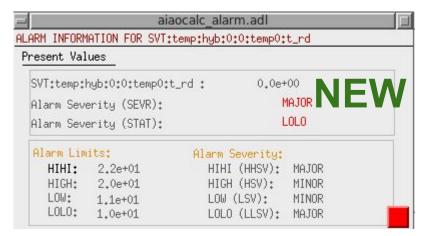




Hybrid Alarms

Each hybrid originally had different alarm values, easy to change (now the same).





Things To Do

Update hybrid temp alarm values if necessary

Document

It *probably* works... but we should probably test this stuff (change interlock ranges to see if things trip, turn on SVT DAQ, etc.)

Also, VNC is port: 4 on clonsl1 in JLab HallB