

L ☐ R ☐ HRS detector long checklist part 1. Completed by _____ . Date: _____

Checked	Needs attention
☐	☐
Upstairs	
1	☐ The air cooling in the detector hut is operational
2	☐ Each of the cooling fans in the NIM crates (3 per crate) are working
3	☐ The cooling fan is working on the VME crate
4	☐ The cooling fan is working on the Trigger Supervisor Crate
5	☐ The cooling fan is working in the VME slow control VME crate
6	☐ The cooling fans are working at the VDC Threshold Control
7	☐ Each of the cooling fans in the back of the racks are working (3 units with 3 fans)
Downstairs	
8	☐ Each of the cooling fans (3 of them) are working in the FastBus relay rack
9	☐ The cooling fans are working on the VDC level translator panel
10	☐ Power to the front-end discs is turned ON for the S2m and cooling fans are operational
11	☐ Fresh air flow is turned on for PMTs on S0, S1 and S2m detectors, $P \approx 0.5$ to 1 inches
12	☐ All high voltage and signal cables in the detector hut are secured
DAQ	
13	☐ The internet connection to each of the three FastBus CPUs is operational (via GUI)
14	☐ The internet connection to the VME CPU is operational (via GUI)
15	☐ The internet connection to the Trigger Supervisor CPU is operational (via GUI)

L ☐ R ☐ HRS detector long checklist part 2. Completed by _____ . Date: _____

Checked	Needs attention
↓	↓
	VDC
16	☐ The VDC gas flows are turned on at a level of 30 in the flowmeters
17	☐ The flow is seen from the exhaust bubblers/flowmeters
18	☐ The power supply is turned on for the VDC amplifier cards
19	☐ The threshold control for the VDC is turned on (+3V, 0.1A)
20	☐ The level translators for the VDC are turned on (+5V and -5V)
	High Voltage
21	☐ The control of the HV crate for the detector is operational (via GUI)
22	☐ The S2m HV power is set at 1.6 kV settings and the current at each of the 32 channels is < 1 mA (HV GUI)
23	☐ The S0 HV power is set at 1.2 kV settings and the current at each of the 32 channels is < 1 mA (HV GUI)
24	☐ The GC HV power is set at 1.6 kV settings and the current at each of the 10 channels is < 1 mA (HV GUI)
25	☐ The Shower HV power is set at 0.8 kV settings and the current at each of the channels is < 1 mA (HV GUI)
26	☐ The VDC HV power is set at 3.5 kV and the leakage current is below 0.01 μ A (HV GUI)
27	☐ The VDC leakage current trip level set to below 100 μ A in HV GUI
	Scalers
28	☐ The S2m scaler rates are below 2 kHz in each of the 32 channels
29	☐ The S0 scaler rates are below 2 kHz
30	☐ The GC scaler rates are below 10 kHz in each of the 10 channels
31	☐ Post all pages of the Scaler GUI to the HALOG
32	☐ The Gas Cherenkov, GC, CO2 flow is turned on at the level of 50 at the flowmeter by stairs
33	☐ The fans are working for the beamline electronics
Date	Check performed by _____ Check approved (B. Wojtsekhowski)