

# Hall A Post Beam Checklist

## Post Beam Checklist - Extended Maintenance

Date \_\_\_\_\_ Time \_\_\_\_\_

Last Revised: 14 July 2017

**This checklist will be performed when the maintenance period is expected to last more than 2 weeks**

Person(s) Completing Checklist \_\_\_\_\_

**\*\*\* BE MINDFUL OF AND OBEY ALL POSTED RADIATION SIGNS AND BOUNDARIES...**

### ***Power supplies:***

#### **L-HRS Magnets**

\_\_\_\_\_ Remotely set Q1 to 0 amps.

\_\_\_\_\_ Remotely set Q2 to 0 amps.

\_\_\_\_\_ Remotely set Q3 to 0 amps.

\_\_\_\_\_ Remotely set Dipole to 0 amps.

#### **R-HRS Magnets**

\_\_\_\_\_ Remotely set Q1 to 0 amps.

\_\_\_\_\_ Remotely set Q2 to 0 amps.

\_\_\_\_\_ Remotely set Q3 to 0 amps.

\_\_\_\_\_ Remotely set Dipole to 0 amps.

### ***Target:***

\_\_\_\_\_ Install protective guards on target chamber and spectrometers entrance windows.

\_\_\_\_\_ **NOTE: DO NOT BLEED UP TARGET CHAMBER... Get approval from Target Group before doing any work on chamber or CELL RUPTURE could result!**

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## ***Spectrometers:***

### **L-HRS**

- \_\_\_\_\_ Close spectrometer turbo valve. Switch located in rack 1H71B01
- \_\_\_\_\_ Turn off spectrometer turbo and unplug its fans. Controller is located in rack 1H71B01
- \_\_\_\_\_ Turn off spectrometer turbo backing pump and vented to atm. **Ensure turbo has spun down before shutting off backing pump.**
- \_\_\_\_\_ Turn off spectrometer cold cathode gage located in rack 1H71B01
- \_\_\_\_\_ Leave spectrometer convectron gage ON located in rack 1H71B01
- \_\_\_\_\_ Install exit window guards
- \_\_\_\_\_ Bleed up spectrometer vacuum to atm. Valve located on turbo manifold at dipole entrance

### **R-HRS**

- \_\_\_\_\_ Close spectrometer turbo valve. Switch located in rack 1H72B01
- \_\_\_\_\_ Turn off spectrometer turbo and unplug its fans. Controller is located in rack 1H72B01
- \_\_\_\_\_ Turn off spectrometer turbo backing pump and vented to atm. **Ensure turbo has spun down before shutting off backing pump.**
- \_\_\_\_\_ Turn off spectrometer cold cathode gage located in rack 1H72B01.
- \_\_\_\_\_ Leave spectrometer convectron gage ON located in rack 1H72B01
- \_\_\_\_\_ Install exit window guards
- \_\_\_\_\_ Bleed up spectrometer vacuum to atm. Valve located on turbo manifold at dipole entrance

# Hall A Post Beam Checklist

## **L-HRS**

*Q1:*

\_\_\_\_ Ensure 0 current status on local readout

\_\_\_\_ Turn off power to power supply and main disconnect switch. Lock out main disconnect with an administrative lock

*Q2:*

\_\_\_\_ Ensure 0 current status on local readout

\_\_\_\_ Turn off power on power supply and main disconnect switch. Lock out main disconnect with an administrative lock

*Q3:*

\_\_\_\_ Ensure 0 current status on local readout

\_\_\_\_ Turn off power on power supply and main disconnect switch. Lock out main disconnect with an administrative lock

*Dipole:*

\_\_\_\_ Ensure 0 current status on local readout

\_\_\_\_ Turn off power on power supply and main disconnect switch. Lock out main disconnect with an administrative lock

## **R-HRS**

*Q1:*

\_\_\_\_ Ensure 0 current status on local readout

\_\_\_\_ Turn off power to power supply and main disconnect switch. Lock out main disconnect with an administrative lock

*Q2:*

\_\_\_\_ Ensure 0 current status on local readout

\_\_\_\_ Turn off power on power supply and main disconnect switch. Lock out main disconnect with an administrative lock

*Q3:*

\_\_\_\_ Ensure 0 current status on local readout

\_\_\_\_ Turn off power on power supply and main disconnect switch. Lock out main disconnect with an administrative lock

*Dipole:*

\_\_\_\_ Ensure 0 current status on local readout

\_\_\_\_ Turn off power on power supply and main disconnect switch. Lock out main disconnect with an administrative lock

# Hall A Post Beam Checklist

## Beam Line

\_\_\_ Call MCC and ask them to command all beamline valves to the CLOSED position. VBV1C20, VBV1C20A, VBV1H00, VBV1H00A, VBV1H00B, VBV1H04B & VBV1H04C

\_\_\_ Ensure all beamline valves are in the closed position.

\_\_\_ Ensure all local beam line switches are in the OFF position. Turn beam line valve control key switch to maintenance. These switches are located in rack 1H75B20

\_\_\_ Unplug valves upstream and downstream of target chamber

\_\_\_ Turn off Raster turbo and fan. Controller is located on top of Raster safe

\_\_\_ Turn off Raster turbo backing pump and vent to atm. **Ensure turbo has spun down before shutting off backing pump.**

\_\_\_ Turn off beamline girder turbo and fan. Controller is located in rack 1H75B09

\_\_\_ Turn off beamline girder turbo backing pump and vent to atm. **Ensure turbo has spun down before shutting off backing pump.**

\_\_\_ Turn off exit beamline turbo and fan. Controller is located in rack 1H75B04.

\_\_\_ Turn off exit beamline turbo backing pump and vent to atm. **Ensure turbo has spun down before shutting off backing pump.**

\_\_\_ Turn off exit beamline convectron gage located in rack 1H75B09.

## Dump

\_\_\_ Turn off diffuser cooler and unplug its fan

\_\_\_ Visually inspect area for water leaks

## Hall

\_\_\_ Inspect power supply platforms, spectrometers, and the rest of the Hall, looking for water leaks and cryogenic plumes

\_\_\_ Make HALOG entry:

“Checklist Complete and Target Window and spectrometer Guards are installed”

“The tech on call at shutdown is\_\_\_”

Note any outstanding issues not completed on the checklist.

Note any special requirements or restrictions