Post Beam Checklist for an extended Maintenance

Last revised 8/11/08 **Date** _____time _____

This	checklist will be performed when the maintenance period is expected to last more that 2 weeks
	responsible for checklistchecking list
Left <mark>Q1</mark>	r supplies
Q2	set current to 0 amps by remote control set current to 0 amps by remote control
	set current to 0 amps by remote control
Dipole —— Right	set current to 0 amps by remote control
Q1	set current to 0 amps by remote control
	set current to 0 amps by remote control
	set current to 0 amps by remote control
Dipole	set current to 0 amps by remote control

Targ	et NOTE: LOOK FOR "RADIATION AREA" SIGN and OBEY
 chamb	Ensure that the protective shields for the vacuum windows for the cryo target per and spectrometers are installed if a vacuum is present.
_	NOTE: DO NOT bleed up target chamber without the concurrence of the Cryogroup or CELL RUPTURE could result! Bleeding up the target chamber is NOT this checklist.
Spec	etrometers
	NOTE: LOOK FOR "RADIATION AREA" SIGN and OBEY
	Right Spectrometer turbo valve closed Switch located in rack 1H72B01
	Right Spectrometer turbo off and its fans are unplugged Switch located in rack 1H72B01 Pump located at Dipole entrance
	Right Spectrometer backing pump off and vented to atm. Pump located at Dipole entrance
	Right Spectrometer cold cathode gage off located in rack 1H72B01
	Right Spectrometer convectron gage on located in rack 1H72B01
	Install guards on entrance and exit vacuum windows
	Bleed up spectrometer vacuum to Atm. Valve located on turbo manifold at dipole entrance

Left Spectrometer turbo valve closed

Switch located in rack 1H71B01 Left Spectrometer turbo off and its fans are unplugged Switch located in rack 1H71B01 Pump located at Dipole entrance Left Spectrometer backing pump off and vented to atm. Pump located at Dipole entrance Left Spectrometer cold cathode gage off located in rack 1H71B01 Left Spectrometer convectron gage on located in rack 1H71B01 Install guards on entrance and exit vacuum windows Bleed up spectrometer vacuum to Atm. Valve located on turbo manifold at dipole entrance Left Q1 ensure 0 current status on local readout If maintenance is required, turn off power at the disconnect switch and lock it out using an administrative lock and tag. You must have electrical worker training and proper PPE to complete this step. Q2 ensure 0 current status on local readout If maintenance is required, turn off power at the disconnect switch and lock it out using an administrative lock and tag. You must have electrical worker training and proper PPE to complete this step. Q3 ensure 0 current status on local readout If maintenance is required, turn off power at the disconnect switch and lock it out using an administrative lock and tag. You must have electrical worker training and proper PPE to complete this step. Dipole ensure 0 current status on local readout If maintenance is required, turn off power at the disconnect switch and lock it out using an administrative lock and tag. You must have electrical worker training and proper PPE to complete this step. Right Q1

ensure 0 current status on local readout

	If maintenance is required, turn off power at the disconnect switch and lock it out using an administrative lock and tag. You must have electrical worker training and proper PPE to complete this step.
Q2 	ensure 0 current status on local readout If maintenance is required, turn off power at the disconnect switch and lock it out using an administrative lock and tag. You must have electrical worker training and proper PPE to complete this step.
Q3	ensure 0 current status on local readout
	If maintenance is required, turn off power at the disconnect switch and lock it out using an administrative lock and tag. You must have electrical worker training and proper PPE to complete this step.
Dipo	le
	ensure 0 current status on local readout If maintenance is required, turn off power at the disconnect switch and lock it out using an administrative lock and tag. You must have electrical worker training and proper PPE to complete this step.
Entr	nance beam tube NOTE: LOOK FOR "RADIATION AREA" SIGN and OBEY ensure that all of the 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
	ensure that the beam line vacuum valves are closed unplug the all metal VAT valve upstream of the target
	E P turbo valve located between the turbo and the EP chamber is closed E P turbo controller located under EP chamber in the lead bricks is off
	E P backing pump located on the balcony under the turbo is off and vented.
	Girder turbo valve closed at the turbo and the backing pump
	Girder turbo off
	Girder backing pump off and vented to atm. instrument air compressor functioning normally
Exit	beam tube
	NOTE: LOOK FOR "RADIATION AREA" SIGN and OBEY
	Have MCC close the exit beam line valve
	beam line valve closed and unplugged

This plug is below the exit beam line valve downstream of the target exit beam line turbo backing pump valve at turbo closed exit beam line turbo off at rack 1H75B04 and the turbo fans unplugged exit beam line backing pump off and vented to atm. Convectron gages on in rack 1H75B09		
Dump		
NOTE: LOOK FOR "RADIATION AREA" SIGN and OBEY		
turn off diffuser cooler and unplug its fan		
Inspect visible areas for water leaks		
Hall		
NOTE: LOOK FOR "RADIATION AREA" SIGN and OBEY		
Inspect power supply platforms, spectrometers, and the rest of the Hall, looking		
for water leaks and cryogenic plumes		
Make the following entries into the HALOG		
ensure that the tech on call strip charts are running on the computer in the Hall		
"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		