E P chamber bleed up checklist

Date __/__/__

Revised 12/16/98

Name of persons doing checklist_____

NOTE: ITEMS IN RED REPRESENT A POSSIBLE HAZARD TO EQUIPMENT

Prior to beginning this checklist you should

1: Record the vacuum in the EP chamber in Beam line vacuum rack _____
2: Record the vacuum in the Moeller Beam line in Beam line vacuum rack _____
3: Record the vacuum in the Target chamber in Beam line vacuum rack _____
4: Record the vacuum in the Exit beam pipe in Beam line vacuum rack _____
5: Record the Vacuum in the Compton Beam line in Beam line vacuum rack _____

To bleed up EP vacuum chamber

___ Call MCC and inform them that you are taking the Hall A beam line valves to the maintenance mode in order to bleed up the E P chamber. Ask them to enter this in the E-log, and be sure to get the controller's name that took the call.

operator's name _____

___ Insure that all of the manual switches on the Hall A beam line Vacuum Valve control chassis located in Beam line vacuum rack _____ are in the closed position

___ Turn the key to maintenance, then remove and tag the key.

___ Visually verify that all Hall A beam line valves are closed

___ Close the gate valve between the EP chamber and it's turbo pump

___ Turn off turbo pump

___ Turn off backing pump and automatic valve

___ If only shutting EP system down stop here

___ Using dry N2 bleed up EP chamber through K F-16 VAT valve being careful not to over pressurize the chamber

To pump down EP vacuum Chamber

___ Turn on backing pump and automatic valve

___ Open vacuum valve between EP and roughing pump

___ Pump EP chamber down to < 10 mtorr

___ Verify that turbo is functioning normally

___ Open EP to turbo isolation valve

___ Close vacuum valve between EP and roughing pump

___ allow vacuum in the EP chamber to reach 5x10-4

___ verify that vacuum in the Moeller beam line is< 1x10-4

___ Using the manual switch, open the beam line valve between the EP chamber and the Moeller turbo.

___ Using the manual switch, open the beam line valve between the EP chamber and the raster.

___ verify that vacuum in the E P chamber is ~1x10-4

___ Using the manual switch, open the beam line valve between the EP chamber and the downstream end of the differential pumping station.

___ If the Cryo target is installed, verify that the target chamber vacuum is <1x10-4

___ If the Cryo target is installed. using the manual switch, open the beam line valves on both ends of the target chamber.

___ Recheck all of the Hall A vacuum systems and insure that all beam line vacuums are at least 1 x 10-4.

___ Call MCC and inform them that you are taking the Hall A beam line valves back to the operational mode. Ask them to enter this in the E-log, and be sure to get the controller's name that took the call.

operator's name _____

___ Untag and insert the key, then turn it to the operational position

___ Visually verify that all Hall A beam line valves are open