

Prepared by: Kevin A. Brown

Date: Jan. 9, 2009

Reviewed by: *David Beavis*

Date: *1/12/09*

Approved by: *D. I. Lowerstein*

D. I. Lowerstein

Date: *1/12/09*

**AGS SWITCHYARD CHECK-OFF LIST
AGS INJECTION AND FEB EXTRACTION
WITH NO BEAM EXTRACTED TO SWITCHYARD**

NOTE: Completion of this Switchyard check-list is required in order to inject any ion species, including polarized protons, into the AGS. High Intensity proton operation is prohibited.

SEB LOCKED OUT BY:

1. ____ (LP) CD1 Dipole Locked out
____ (Date/Time)
____ (Tag No.)
____ (Date/Time Tag Removed)
2. ____ (LP) CQ1 Quadrupole Locked Out
____ (Date/Time)
____ (Tag No.)
____ (Date/Time Tag Removed)
3. ____ (LP) CQ2 Quadrupole Locked Out
____ (Date/Time)
____ (Tag No.)
____ (Date/Time Tag Removed)
4. ____ (LP) CQ3 Quadrupole Locked Out
____ (Date/Time)
____ (Tag No.)
____ (Date/Time Tag Removed)
5. ____ (LP) CQ4 Quadrupole Locked Out
____ (Date/Time)
____ (Tag No.)
____ (Date/Time Tag Removed)

A Line LOCK OUT:

6. _____(RSCC) AD5 – 8 RSC LOTO
_____(Date/Time)
_____(Tag No.)

B Line LOCK OUT

Item 8 must be signed to complete checklist.

7. _____(RSCC) BD5-8 P.S. Disconnected and Cables RSC LOTO
_____(Date/Time)
_____(Tag No.) _____(Lock No.)
_____(Tag No.) _____(Lock No.)

C Line LOCK OUT

8. _____(RSCC) CD4 RSC LOTO
_____(Date/Time)
_____(Tag No.)

9. _____(RSCC) C-Line Diffuser in CLOSED position and RSC LOTO
_____(Date/Time)
_____(Tag No.)

D Line LOCK OUT

10. _____(RSCC) DD8 & 9 removed from the Cave.

The Liaison Engineer for primary SEB areas where shielding removal/modifications have taken place must certify that the shielding (1) is returned to original configuration, or (2) has received RSCC approval.

11. _____(LP) Switchyard ready for beam in AGS ring.

12. _____(OC) List completion verified by on duty operations coordinator.

The Main Control Room may now inject and accelerate beam in the AGS.

NO BEAM EXTRACTION TO SWITCHYARD IS PERMITTED.

MCR OC is responsible to ensure Radiation Surveys of the area are done at the earliest possible time.

LE	Liaison Engineer Switchyard (A. Pendzick or designate)
LP	Liaison Physicist Switchyard (K.A. Brown/J.W. Glenn or designate)
OC	MCR Operations Coordinator (O.C. on duty)
RSCC	Radiation Safety Committee Chair (D. Beavis or designate)