

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match. The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are available by contacting the **ESSHQ Procedures Coordinator, Bldg. 911A***

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

2.6.1.f Power supply verification for AGS Access LOTO

C-A-OPM Procedures in which this Attachment is used.		
2.6.1		
2.6.2		

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
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Approved: _____ *Signature on File* _____
 Collider-Accelerator Department Chairman Date

P. Sampson

POWER SUPPLY VERIFICATION GUIDE:

ALL GAMMA TR PSs

- Observe all lights go out, switch to local, observe power supply will not come on.

F10 HOUSE

- SDRIVE, FPBLW, E17 Quadrupole
 - Switch to local attempt to turn on
 - Observe on light and ac volt meter, check all 3 phases are zero volts.

E10 HOUSE

- E10 Low Fields; observe 3 lamps on top of racks go out.
- E10 Snake Kirk Key, Use Panel View Rack 5054 for verification. A mechanical lockout fault will be indicated.

NOTE: SUPPLY WILL STILL COME TO STBY AND BLOWERS WILL OPERATE, NO ON POSSIBLE DUE TO AC FAULT ON PLC

H10 HOUSE

- G9 BUMP H11 BUMP:
 - All lights and fans go out use observe no control in local.
- H10 LF, Observe 3 lamps on top of racks go out.
- G10 kicker Check that the Round light atop the G10 Kicker rack:
 - The Three lights for L1, L2 and L3 should be flashing at the same rate.
 - No GND lights should be lit.
 - After opening the disconnect switch H10-B2-6-2, all lights should go dark.
- H10 SEPTUM; Use local control to verify supply cannot be operated.
- H10 short; close switch after H10 septum is locked and verified off and meter on cap bank reads 0 volts.

BLDG 921

- Observe that the input voltage on the local meters goes to zero when disconnect is opened and that attempts to turn the supply on locally result in a fault.

J18 HOUSE

- J10 bump use lights, voltmeter and local controls on front of p.s. to verify.

F18 HOUSE

L18A HOUSE

- **L18A:**
 - Observe that the following supplies lose power:
 - BTA D4, D5 and Q8-15
 - Use ps BTA Q13 for verification, use front panel lights and local controls to verify no operation.
- L18A-C locks out L20 septum, use local control rack lights and switches.
- L20 cap short close after L20 LOTO verified and meter reads 0 volts.

A10 HOUSE

- LFDC observe 3 lamps on top of racks go out.
- Use the Master supply to attempt to turn the A20 A Bump PS on.

B18 House

- For the B3 and A17 Quad supplies, Observe the face meters before and after LOTO. Attempt to turn the supplies on in local (toggle switch to local).

C18 House

- For the A19 and B1 quad supplies, check power supply face meters before and after LOTO, then attempt to bring on in local.

BLDG 929

- MMPS; follow OPM 2.6.6.

911 MULTIPOLE ROOM

- QV, QH, SV; Observe lights and use local control switches front of supply.
- SH; Observe ac meter. Use local on switch, supply will indicate 'on' and blower come on. Supply will indicate 'acflt' and will not stay 'on'.

911B ABOVE MCR

- AGS Aux lowfields; lights on 8 power supplies last 2 racks go out on racks 2896, 4077 and 4088.

BUILDING 912- U line elements

- CAS Watch Locks out Kirk Key and verifies no Local Operation.