

# **TOROID POWER SUPPLY SYSTEM** **TURN OFF PROCEDURE**

This procedure describes how to turn off the Toroid Power supply correctly.

Approvals:

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( CDF Department Head )

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( Date )

**1.0 Controlled Copies of this procedure.**

Copies of this procedure are located in :

1. CDF Department Office
2. CDF Gas Tech. Operations Bench
3. CDF Operations Electrical Group Leaders Office

All other copies will be marked, " INFORMATIONAL COPY ONLY "

## **2.0 The Procedure.**

### FOLLOW ALL NUMBERED STEPS IN SEQUENCE

1. Obtain permission to turn off TOROID POWER SUPPLY from the CDF Scientific Coordinator (ext. 2079).
2. Have the SOD Operator obtain permission, to turn off, from the Accelerator Main Control Room Crew Chief (ext. 3721) and schedule accordingly. Wait for the SOD operator to tell you that he has received permission to turn off.
3. Record status of Fault indicators in Log book on side of toroid power supply.
4. SLOWLY decrease internal reference on reference module to zero  $\blacktriangle$  10 v/sec. This can be read on the digital meter on the front of the power supply.
5. Turn D.C. off.
6. Turn off control power switch.
7. Turn off power supply disconnect.
8. Lockout and tag power supply disconnect with the "Toroid Administrative Lock". The key for the "Toroid Administrative Lock" can be obtained from cryogenics personnel. It is key # 8 in their key tree.  
  
Keys to administrative locks are only issued to personnel trained and authorized to operate the device in question. The training insures that qualified operators are familiar with all the hazards associated with the equipment.
9. Turn off 1000 amp circuit breaker in power panel DHP-B0-3, location: Cryo-console area and tag the breaker.  
NOTE: Rotating red light at Power Supply Magnet Filter should now be OFF.
10. Sign toroid checklist sheet on front of toroid power supply.

### **3.0 Checklist**

See Next Page

#### **4.0 Deviations from the Procedure**

NONE

**5.0 Required Training and Authorized Training Personnel.**

You must go through this procedure with an instructor and demonstrate that you have a good working knowledge of it.

The training must be documented on a standard Fermilab Training Form and the completed form must be inserted in the CDF Department Office copy of this procedure.

List of authorized instructors.

Keith Schuh	ID # 2282
Mark Knapp	ID # 5384

Both are qualified because of work experience with the toroid system.

## **6.0 Training Materials.**

Section 2.0 of this procedure, a Fermilab training sheet and a tour of the Toroid system.

## **7.0 List of Trained People for this procedure.**

Eventually the list may reside in a lab-wide database.

Until that time, a list of trained personnel for this Toroid Turn Off Procedure should be maintained in the CDF Department Office copy of the procedure in a separate section at the end of this procedure.

The CDF Department is responsible for the list and for updating all the copies.

## **8.0 References and Supporting Documentation.**

None