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C-A OPERATIONS PROCEDURES MANUAL

16.4.8 Response to Magnet Cooling System Failures

(Collider Accelerator Support Group Procedure A.8.0)

Note: This document was formerly a C-A Group Procedure. The content of the group procedure was reviewed by the Technical Supervisor. All approvals and/or issue dates of the original group procedure are maintained for present use.

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

W. Anderson

Collider Accelerator Support Group
Procedure A.8.0
Original Issue Date: 12/31/1990
Revision 00

FES PROCEDURES AND INSTRUCTIONS

DATE: December 31, 1990

ISSUED BY: W. Anderson

SUBJECT: Response to Magnet Cooling System Failures

1. **PURPOSE:**

- 1.1 To provide guidelines for the CAS Watch when a magnet cooling system trips off line (low pressure).

2. **RESPONSIBILITIES:**

- 2.1 The CAS Watch Coordinator shall ensure the implementation of this procedure.

3. **PREREQUISITES:**

- 3.1 A magnet cooling system low pressure alarm.

4. **PRECAUTIONS:**

- 4.1 Do not unlock a power supply cluster lock-out circuit without a confirmation from the Pump Room that a magnet cooling is on-line.

5. **PROCEDURE:**

- 5.1 Lock-out the Power Supply "cluster circuits" that are associated with the magnet cooling system failure.

- 5.1.1 Instruct the MCR to lock-out the associated power supply cluster circuits when the CAS Watch is in a remote area.

- 5.1.2 Any power supply whose circuit breaker trip system has actuated following a "cluster lockout" shall have it's "breaker" and/or circuit breaker trip system tested and repaired.

- 5.1.3 In an emergency, should a power supply fail to de-energize, "crash off" the associated substation breaker.

- 5.2 Inform the Water System Group of the failure.

- 5.3 Inform the Operations Coordinator of the failure.

- 5.4 Once the system is confirmed to be back on line, unlock the associated "cluster circuits" and notify the involved experimenters.

- 5.5 Notify the Operation Coordinator.

6. **DOCUMENTATION:**

- 6.1 Record an entry in the CAS Work Control Log. 6.2 Record an entry in the CAS Summary Report. 6.3 CAD ADT alarm system.

7. **REFERENCES:**

7.1 CAD-OPM 3.12, Operation of the Sub-station Crash Panel at MCR 2-2.

8. **ATTACHMENTS**

8.1 None.