

*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 PROCEDURE MANUAL

2.19 Response to Water “Make-Up” Alarms

Text Pages 2 through 3

Hand Processed Changes

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Approved: _____ *Signature on File* _____
Collider-Accelerator Department Chairman Date

L. Vogt

2.19 Response to Water “Make-Up” Alarms

1. Purpose

To provide instructions to Main Control Room (MCR) operators, Collider-Accelerator Support (CAS), and the Water Systems Group, for the response to “make-up” alarms on systems listed in Section 2.2.

Definitions:

“off hours”

Time when the Water Systems Group is not normally at BNL.

“make-up”

The addition of water to a cooling system.

“dicom system”

The Water Systems Group alarm system located in the main control room.

“water systems PC”

Located on the multi-function PC in the center of the control room.

“alarm reset”

A reset button located on the screen of the “water systems PC” for the system that had a “make-up” alarm.

2. Responsibilities

2.1 MCR Operators, Collider-Accelerator Support (CAS) Technicians, and Water Systems Group Technicians, are responsible for following this procedure.

2.2 Follow this procedure and fill in the attachment if make-up is observed in “Systems Covered by this Procedure” below.

Systems Covered by this Procedure:

2.2.1 Linac Cavity Systems – B930, LEBT

*2.2.2 F-10 Cooling System – B932, B913

2.2.3 RHIC RF Cavity Cooling System – B1004

2.2.4 Systems in the [“Cooling Water Radioactivity” List](#) with a reading >MDL of Tritium and other Nuclides

* Make-up gallon totals and “make-up” alarm reset not available presently.

- 2.3 The Water Systems Supervisor is responsible for retaining the completed checklists.
- 2.4 The Radiological Control Division (RCD) is responsible for performing radiological evaluations and implementing controls.
- 2.5 The C-A Environmental Coordinator is responsible for determining the ultimate disposition of the cooling water.

3. Prerequisites

- 3.1 Training in C-A Operations Procedure, [C-A-OPM-ATT 2.19.a "Checklist for Response to Water "Make-Up" Alarms"](#).

4. Precautions

- 4.1 Appropriate radiological controls and permits shall be addressed prior to entry into radiological area.

5. Procedure

- 5.1 If water "make-up" is observed, or if a "make-up" alarm is received on the "dicon alarm system" during normal working hours, call the Water Systems Group Watch (pump room 2), or the Water Systems Supervisor, on extension 4668, or pp.#4250. Water Systems Group personnel will fill out the attachment ([C-A-OPM-ATT 2.19.a](#)).
- 5.2 If water "make-up" is observed, or if a make-up alarm is received on the "dicon alarm system" during off hours, complete the attachment ([C-A-OPM-ATT 2.19.a](#)).

6. Documentation

The Water Systems Supervisor will retain all completed checklists.

7. References

[C-A-OPM-ATT 10.1.d "Operator Response to Water Spills"](#).

8. Attachments

[C-A-OPM-ATT 2.19.a "Checklist for Response to Water "Make-Up" Alarms"](#).