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C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

8.16.8 Water Systems Status of Equipment Form

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


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

R. Grandinetti

## 8.16.8 Water Systems Status of Equipment Form

### 1. Purpose

The purpose of this procedure is to provide instructions to C-A Water Systems Group responsible for filling out the C-A Water Systems Status of Equipment Form.

### 2. Responsibilities

2.1 This procedure shall be performed by properly trained and qualified personnel.

### 3. Prerequisites

3.1 C-A Skill of the Craft.

Qualified water system technician, RAD Worker I – TLD required, if in high rad area an alarming dosimeter, C-A Access.

### 4. Precautions

None

### 5. Procedure

5.1 This logsheet is filled out weekly by the on-duty Water Systems Technician, and checks are performed by CAS Watch when Water Group Personnel are off duty as instructed.

5.2 All Systems shaded on the checklist are activated, or chemically treated, and those checks are made daily, not once per week.

5.3 Radiation monitoring systems checks consist of checking pressures in system gas bottles.

5.4 The daily check of tankers with activated water is performed for the following reasons. Article 12 compliance:

5.4.1 Ensure tankers that are not empty have secondary containment systems fully closed and in place.

5.4.2 Check entire system for leaks, repair, and report any leaks.

5.4.3 Ensure tankers are properly chocked at the wheels to prevent movement.

- 5.4.4 Ensure all isolation valves are closed.
- 5.4.5 If steam is being supplied to prevent freezing, ensure that condensate is being drained outside of secondary containment, and steam is rising from tanker.
- 5.4.6 If a tanker is empty, ensure tanker empty sign is displayed. Secondary containment is not required for empty tankers.
- 5.4.7 If working secondary containers are full of water, provide a 500 mL sample to ask for gamma and tritium. Disposition of water shall be communicated by Environmental Coordinator.

**6. Documentation**

- 6.1 Complete "Water System Status of Equipment Form, as required.

**7. References**

None

**8. Attachments**

None

## C-A Water Systems Status of Equipment Form

BLDG 911				
MAIN MAGNET	PUMPS	1		
		2		
		3		
	EVAP COOLERS		PUMPS	FANS
		1		
		2		
		3		
		4		
5				
6				
7				
8				
RESISTIVITY	1			
SPECIAL EJECTION	PUMPS	2		
		3		
		4		
		5		
MULTI POLE ROOM SYSTEM	PUMPS	1		
		2		
POWER ROOM	DEMNERALIZER	1		
BLDG 951-- (TE BLDG)				
RF PA CLG SYSTEM	PUMPS	1		
		2		
		CIRC.		
RESISTIVITY				
RF PA CLG COOLER SYSTEM	PUMPS	1		
		2		
		FAN	1	
		SPRAY PUMP	1	
FAST PULSE QUAD SYSTEM	PUMPS	1		
		2		
RESISTIVITY				
BLDG 953				
COOLING TOWER NO. 1	FAN	1		
		2		
		3		
		4		
	PUMPS	1		
2				
3				
4				
CONDUCTIVITY				
BLDG 912				
COOLING TOWER NO. 2	FANS	1		
		2		
		5		
	PUMPS	6		
		7		
		CONDUCTIVITY		
		RESISTIVITY		
"C" LINE	PUMPS	1		
		2		
		RESISTIVITY		
COOLING TOWER NO. 3	FAN	1		
		8		
		9		
		CONDUCTIVITY		
COOLING TOWER NO. 4	FAN	1		
		10		
		11		
		12		
		13		
		CONDUCTIVITY		
SPECIAL EXPERIMENTAL MAGNET SYSTEM	PUMPS	1		
		2		
		3		
		CIRC.		
RESISTIVITY				
S.E.M. COOLING TOWER	FAN	1		
		2		
		CONDUCTIVITY		
		OZONE		
BOOSTER BLDG 914				
MAIN MAGNET	PUMPS	1		
		2		
		3		
RESISTIVITY				
BOOSTER PUMPS	PUMPS	1		
RF SYSTEM	PUMPS	1		
		2		
		3		
RESISTIVITY				
CHILLED WATER	PUMPS	1		
BLDG 919				
COOLING TOWER NO. 5	FAN	1		
		2		
		3		
		CONDUCTIVITY		
RADIATION MONITORING SYSTEM				
LOCATION	STATION	DN LINE CYCLE		
FAN HOUSE "C" PORTA CAMP	A-B			
FAN HOUSE "D"	C-D			
FAN HOUSE "E"	E-F			
WEST SIDE	G-H			
FAN HOUSE "A"	I-J			
FAN HOUSE "B"	K-L			
LINAC RADIATION MONITOR	MAIN			
BLDG 946				
BEAM STOP COOLING	PUMPS	1		
		2		
RESISTIVITY				
BLDG 928				
R.F.M.G. TOWER	FANS	1		
		2		
		1		
	PUMPS	2		
		3		
		CIRC.		
CONDUCTIVITY				
RF POWER SYSTEM	MAIN PUMPS	1		
		2		
		3		
		4		
BOOSTER PUMPS	PUMPS	1		
RESISTIVITY				
RF CAVITY SYSTEM	PUMPS	1		
		2		
RESISTIVITY				
CHOKO SYSTEM	PUMPS	1		
		2		
RESISTIVITY				
RECTIFIER SYSTEM	PUMPS	1		
		2		
RESISTIVITY				
F-10 COOLING SYSTEM	PUMPS	1		
		2		
RESISTIVITY				
H-10	TOWER	FAN	SPRAY	
		1		
		2		
		RESISTIVITY		
902 TOWER	FAN	1		
		2		
		3		
		4		
CONDUCTIVITY				
944 COOLING SYSTEM	PUMPS	1		
		2		
RESISTIVITY				
G-2 SYSTEM	PUMPS	1		
		2		
		CIRC.		
DEMNERALIZER				
G-2 COOLING TOWER	FAN	1		
		2		
		CONDUCTIVITY		
200 MEV LINAC BLDG 930				
LINAC TOWER	FAN	1		
		2		
		CONDUCTIVITY		
RF SYSTEM	PUMPS	1		
		2		
RESISTIVITY				
TRANSPORT SYSTEM	MAIN PUMPS	1		
		2		
RESISTIVITY				
CAVITY WATER SYSTEM	PUMPS	1	TANK 1	
		2	TANK 1	
		3	TANK 3	
		4	TANK 2	
		5	TANK 2	
		6	TANK 5	
		7	TANK 4	
		8	TANK 4	
		9	TANK 7	
		10	TANK 7	
		11	TANK 6	
		12	TANK 9	
		13	TANK 9	
		14	TANK 8	
10 <sup>TH</sup> STATION	PUMPS	1		
		2		
DEMNERALIZER				
BOOSTER APPLICATIONS FACILITY BLDG 957				
BAF MAGNET SYSTEM	PUMPS	1		
		2		
RESISTIVITY				
BAF POWER SUPPLY PUMPS	PUMPS	1		
		2		
RESISTIVITY				
BAF COOLING TOWER	FAN	1		
		2		
		CONDUCTIVITY		
OZONE				
BLDG 1000P				
COOLING TOWER NO. 6	FAN	1		
		2		
		CONDUCTIVITY		
RHIC INJECTION COOLING SYSTEM	PUMPS	1		
		2		
		CIRC.		
RESISTIVITY				
BLDG 1002				
BRAHMS TOWER	FAN	1		
		2		
		CONDUCTIVITY		
		OZONE SYSTEM		
BRAHMS SYSTEM	PUMPS	1		
		2		
RESISTIVITY				
BLDG 1004				
RF PA SYSTEM	PUMPS	1		
		2		
RESISTIVITY				
RF CAVITY SYSTEM	PUMPS	1		
		2		
RESISTIVITY				
RF TOWER	FAN	1		
		2		
		CONDUCTIVITY		
		OZONE		
BLDG 1005P				
COOLING TOWER NO. 7	FANS	1		
		2		
		3		
		4		
		5		
	PUMPS	6		
		1		
		2		
		3		
		4		
CIRC.				
CONDUCTIVITY				
BLDG 1005 E				
HELIUM RELIQUIFICATION TOWER	FAN	1	(HAND)	
		2		
		CONDUCTIVITY		
BLDG 1006				
STAR COOLING TOWER	FANS	1		
		2		
		3		
		CONDUCTIVITY		
STAR MAGNET SYSTEM	ORP	1		
		2		
		CIRC.		
		TEST TANK PMP	1	
		RESISTIVITY		
OXYGEN				
PH				
CHILLERS	PUMPS	1		
MODIFIED CHILLED WATER	PUMPS	1		
RESISTIVITY				
POWER SUPPLY	PUMPS	1		
		2		
RESISTIVITY				
TPC SKID	PUMP	1		
		RESISTIVITY		
		OXYGEN		
BLDG 1008C				
PHENIX TOWER	FAN	1		
		2		
		CONDUCTIVITY		
PHENIX MAGNET SYSTEM	PUMPS	1		
		2		
		3		
		CIRC.		
RESISTIVITY				
CHILLERS	PUMPS	1		
POWER SUPPLY	PUMPS	1		
RESISTIVITY				
BLDG 1010				
PHOBOS SYSTEM	PUMP	1		
		RESISTIVITY		
PHOBOS TOWER	FAN	1		
		2		
		CONDUCTIVITY		
OZONE				
BLDG 1010				
C-A WATER SYSTEMS STATUS OF EQUIPMENT				
WEEK OF: _____				
OPERATOR: _____				
*PLACE REMARKS AND ADDITIONAL EQUIPMENT ON BACK OF SHEET				