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C-A OPERATIONS PROCEDURES MANUAL

15.3.5.8 Electrolyte Level and Specific Gravity Test

(Booster/AGS Ring Power Supply Systems Group Procedure EPS-W-008)

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

M. Bannon

Booster/AGS Ring Power Supply Systems
Group Procedure EPS-W-008
Revision 00

Electrolyte Level and Specific Gravity Test

- A. The electrolyte level should be checked daily and water added as needed. (Water is added by first sending it through the demineralizer added by first sending it through the demineralizer and letting it run outside for approx. 5 mins then add it to the tank until water level is correct.)
- B. When water is added it is to be documented on the computer in the file for monitoring how often water is added to liquid rheostat.
- C. At least once a month the specific gravity of the water should be checked and then recorded on the computer what the specific gravity is and if it is incorrect then we must add soda ash until the specific gravity reading is correct. (Reading should be specific gravity=1.017)

Check specific gravity and record number _____

Temperature of solution _____

When testing the specific gravity of the water/soda ash solution it will be necessary to have the electrolyte circulating pump on for a minimum of 15-30 minutes to insure the solution is mixed enough for an accurate reading to be taken.

After solution has been mixed thoroughly fill water beaker with solution and using our calibrated hydrometer which has a scale from 1.000 to 1.100 measure the specific gravity and the temperature of the solution and record in logbook.