



BBC INSTALLATION PROCEDURE

procedure name

PHENIX Procedure No. PP-2.5.5.4-05

Revision: A

Date: 4-16-99

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
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Approvals

_____ PHENIX S E & I	_____ Date	_____ Cognizant Scientist/Engineer /Activity Manager	_____ Date
_____ PHENIX QA/Safety	_____ Date	_____ RHIC ES&H	_____ Date

REVISION CONTROL SHEET

LETTER	DESCRIPTION	DATE	WRITTEN BY	APPROVED BY	TYPED BY
A	First Issue	4/16/1999	n/a	H, Ohnishi, W. Lenz, M. Gaffney, (1 unintelligible)	n/a

BEAM/BEAM COUNTER (BBC) Installation Procedure

1.0 Purpose and Scope

This document shall describe the method of safely installing the BEAM/BEAM COUNTER (weighing 15 lb. per half) onto the PHENIX Flowerpot slides and around the beampipe. This access will be done during long shutdown, since this requires movement of magnets.

2.0 Responsibility

Only trained and authorized persons shall perform the tasks described herein under the supervision of the building 1008 PIC and the PHENIX-BBC representative.

3.0 Prerequisites

- 3.1 All persons performing tasks described herein shall possess a current BNL Safety Awareness Certificate (SAC).
- 3.2 All persons performing tasks described herein shall possess current training certificates for equipment used per BNL ES&H standard 1.6.0.
- 3.3 All persons performing tasks described herein shall wear proper personal protective equipment per BNL ES&H standard 1.16.0.
- 3.4 All materials handling equipment used shall have been maintained and inspected per BNL ES&H standard 1.6.0.

4.0 Required Equipment

- 4.1 A platform or manlift where one can gain access to the BBC at the service position. Minimum capacity of 300 lb, there should be no shaking or sagging during all the work.
- 4.2 A crane with slings or a lifting cage (min. capacity 50-lb.) to move the BBC canisters to the platform (optional).

5.0 Procedure

- 5.1 The BBC top and bottom canisters, including detectors fully mounted inside the frames and optical fiber cords wired on the front panel, shall be delivered to building 1008. Each canister weighs 15 lb, and its center of gravity is located at approximately 100mm from the front panel.
- 5.2 Move up the both top and bottom canisters to the platform with a crane and slings or a cage. Be careful not to damage the detector itself and the optical fiber cords.
- 5.3 Make sure that the isolation vacuum valves along the beam pipe closed.
- 5.4 Fully extract the mounting rails from the flowerpot.
- 5.5 Position the bottom canister by hand exactly under the service position. The

front panel with fiber cords faces to the flowerpot. Be careful not to hit the beam pipe or give any damage to the fiber cords.

5.6 Fasten the canister with 4-8/32" screws to the rails. (See Fig.1)

5.7 Carefully place top canister on the bottom by hand paying close attention not to contact beam pipe or damage fiber cords.

5.8 Fasten upper half to lower half with screws.

5.9 Retract BBC into Flowerpot. (See Fig.2)

6.0 References

6.1 BNL ES&H Standard 1.6.0.

6.2 BNL ES&H Standard 1.16.0.

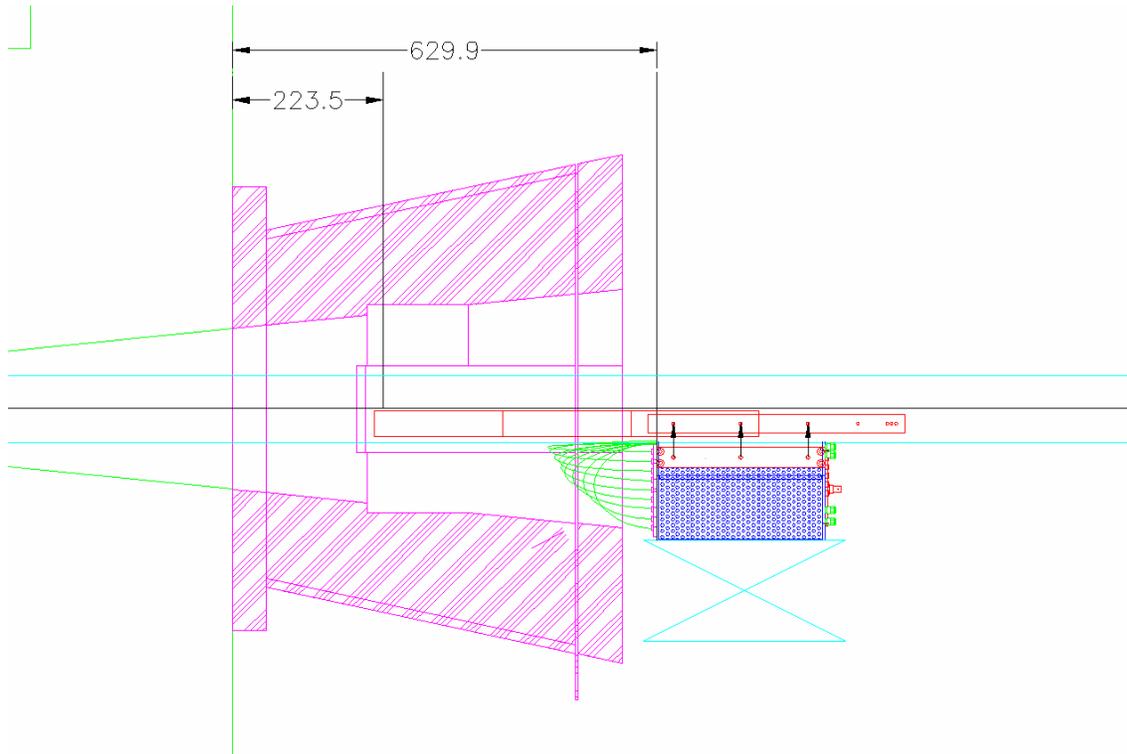
7.0 Attachments

7.1 Drawings

BBC_Installation_Fig.1 (temporal fig number)

BBC_Installation_Fig.2 (temporal fig number)

BBC_Installation_Fig.1



BBC_Installation_Fig.2

