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| Liakin Dmitry  Research Scientist  Date 25.5.2020  Signature: | Date:  Signature: | Date:  Signature: |

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**Preamble**

This document defines the Production Plan for the Beam Diagnostic (BD) component Tune and Longitudinal diagnostics, Schottky Pickup for the FAIR Collector Ring (CR) System.

**Production Plan**

The Schottky system is divided into two structural subsystems. From the production point of view the mechanical assembly and the electronic system are independent from each other. Therefore, two charts of the production sequences are presented below in Figure 1 and Figure 2.

1. The purchasing of equipment & materials

2. (CIC) Quality control of incoming goods: visual control, geometrical and magnetic permeability measurements. Certificates of Compliance.

*Mechanics Part: Flanges, Nipples, Insulators, Electrodes*

3. Chamber welding

4. Holding system components production

5. Welding of the holding system

6. Screw assembling

7. Mechanical adjustment of electrodes position

*Electronics Part*

8. Manufacturing and purchasing of cases and boxes

9. Purchasing of components, ADC and DSP boards

10. Printed boards design and production

11. Assembly and test of analog electronics

*Factory Acceptance Tests (FAT)*

12. Vacuum leakage test

13. RF-based adjustment and test

14. Vacuum test

15. Analog Proc. & Data Acquisition tests

16. System assembly and overall test

*Site Acceptance Tests (SAT A, SAT Ba)*

**Process Chart**

Materials, flanges, nipples, insulators

Chamber welding

Vacuum leakage test

Screw assembling

Holding system components production

Welding of the holding system

Electrodes

Mechanical adjustment of electrodes position

RF-based adjustment and test

Vacuum test

FAT

SAT

Figure 1. Schottky mechanics production chart.

Manufacturing and purchasing of cases and boxes

Purchasing of components, ADC and DSP boards

Printed boards design and production

Assembly and test of analog electronics

System assembly and overall test

Analog Proc. & Data Acquisition tests

Figure 2. Schottky electronics production chart.