

Traveler Title:

Booster Multipole Corrector Magnet Measurements at MTF

Specification No:

5520-TR-333854

Revision:

NONE

DR No:

4554

Step No:

4.1

Drawing No:

5520-ME-445311

Routing Form No:

Serial No:

BMA056

Rework ID:

1

Discrepancy Description:

Traveler instructs to, Measure the magnet, The measurement data have been reviewed. The following is concluded: Current cycle in the Normal Sextupole shows some lag in the strength on the downramps. This is similar to BMA047 and BMA031 for these downramp regions, but unlike these magnets, BMA056 has upramp strengths which are normal/typical. The lag in strength compared to current is on the order of 8 microseconds.

Originator:

Dennis Gaw

Date:

9/9/2008 12:33:43 PM

Cause of Nonconformance:

No cause has yet been determined. After the magnet was returned to IB2 a full electrical test was completed and the measurements were within the limits specified in traveler 5520-TR-333853.

Responsible Authority:

Dennis Gaw

Date:

9/9/2008 12:33:43 PM

Disposition:

The magnet shall be re-measured using "standard production" power supply.
 Notes for Verifying the disposition are, The inspector (Dennis Gaw) who has received this DR for disposition verification cannot verify that the disposition will be followed thru with or that the magnet has been re-measured as per the disposition and feels that the responsibility for disposition lies with some other responsible authority who would have the knowledge of the actual retesting as per the disposition.
 Note for Corrective action to Prevent Recurrence as per the production Engineer is none.
 This should be decided by an engineer with the knowledge of the magnetic measurement process. The fact that this would be re-measured may give new insights as to the reasons the Discrepancy was initiated.
 Disposition verify notes: Joe DiMarco comment: Current cycle in the Normal Sextupole shows some lag in the strength on the downramps. This is similar to BMA047 and BMA031 for these downramp regions, but unlike these magnets, BMA056 has upramp strengths which are normal/typical. The lag in strength compared to current is on the order of 8 microseconds. (Jan Szal) - I found this comment under the traveler's measurement data review step.
 NOTE: (Jamie Blowers) We issued "Vector" DR 10005 on 13-May-09 to record the results of the IB1 remeasurements, which showed the magnet to be OK.

Responsible Authority:

Sasha Makarov

Date:

1/13/2009 4:52:38 PM

Corrective Action to Prevent Recurrence:

None

Responsible Authority:

Sasha Makarov

Date:

1/13/2009 4:52:38 PM

Corrective Action/Disposition Verified By:

Jan Szal

Date:

3/26/2009 7:34:31 AM

Will Configuration be affected?: YES NO

Identified problem area:

- Material
 Manpower
 Method
 Machine
 Measurement

Reviewed By:

Bob Jensen

Date:

5/14/2009 8:10:41 AM