Traveler Title:	Specification No:	Revision:	DR No:
Booster Correction Multipole Magnet Assembly	5520-TR-333819	I	4491

Step No:	Drawing No:	Routing Form No:	Serial No:	Rework ID:
7.10	5520-ME-445004		BMA050	0

Discrepancy Description:

Traveler instructs to, perform an electrical test.
DC resistance limit for the Skew Quad circuit is 1300 to 1400 milli ohms actual measured resistance is 1209 milli ohms.

Originator:	Date:
Dennis Gaw	3/4/2008 3:18:24 PM

Cause of Nonconformance:

Of the eight type C1 coils installed in this magnet, five of them have the layer 5 (skew quad) conductor with a lower resistance: C1-377, 380, 385, 386, 387. On average each of these has a resistance about 30 mohm less than the typical coil, so we would expect this circuit to be 150 mohm less than the typical magnet. Measurement confirms this to be the case.
The lower resistance of these layers is due to the use of a different conductor.

Responsible Authority:	Date:
Jamie Blowers	3/4/2008 3:18:24 PM

Disposition:

If the inductance is within our tolerances, use the coil as is.
Disposition verify notes: The is inductance is within the limits specified in the traveler.

Responsible Authority: Sasha Makarov

Date: 3/5/2008 3:47:37 PM

Corrective Action to Prevent Recurrence:

None
Disposition verify notes: none.

Responsible Authority: Sasha Makarov

Date: 3/5/2008 3:47:37 PM

Corrective Action/Disposition Verified By: Dennis Gaw

Date: 3/6/2008 10:43:00 AM

Will Configuration be affected?: ☐ YES ☑ NO

Identified problem area:

☐ Material ☐ Manpower ☐ Method ☐ Machine ☑ Measurement

Reviewed By: Bob Jensen

Date: 3/6/2008 2:16:18 PM