

4.1 <sup>TM3</sup> ~~TM~~ FEBIAD with Target and No External Connections

Shunts installed and tightened E-F-G-H-T-J-RFQ(H)  
 FEBIAD coil shunts removed P-Q-R-U

Ohm Meter Check					
	Target (ABCD)	Einzel Lens (Y)	60kV Com (T)	Chassis	EE (I)
Magnet Coil (U, Q)	OL	OL	OL	OL	OL
	Infinite	Infinite	Infinite	Infinite	Infinite
Anode (H)	OL	OL	OL	OL	OL
	Infinite	Infinite	Infinite	Infinite	Infinite
60kV Common (T)	OL	OL			
	Infinite	Infinite			
Chassis	OL	OL	OL		
	Infinite	Infinite	Infinite		
EE (I)	OL	OL	OL	OL	
	Infinite	Infinite	Infinite	Infinite	
Einzel Lens (Y)	OL				
	Infinite				

Megger Check (all @ 500V unless otherwise noted)					
	Target (ABCD)	Einzel Lens (Y)	60kV Com (T)	Chassis	EE (I)
Anode (H)	OL	OL	OL	OL	OL
	Infinite	Infinite	Infinite	Infinite	Infinite
60kV Common (T)	64.1MΩ	OL			
	Infinite	Infinite			
Chassis	OL	OL	OL		
	Infinite @ 1000V	Infinite @ 1000V	Infinite @ 1000V		
EE (I)	OL	OL	OL	OL	
	Infinite	Infinite	Infinite	Infinite	
Einzel Lens (Y)	OL				
	Infinite				

Conductance Check [mΩ]						
A - B	A - C	A - D	B - C	B - D	C - D	Q-U
5.382	5.283	4.531	5.267	4.514	4.362	5.228
< 5.7	< 6.8	< 5.3	< 6.8	< 5.3	< 5.5	< 5

Backg. leak rate:	<del>0.0</del>	HS leak rate:	0.0 x 10 <sup>-9</sup>
[atm-cc/s]	< 5E-9	[atm-cc/s]	< Backg. leak rate

Target: NiO #2	Date: Sept 30 2013
Location: SHC CS SHCpost	Signature:

SEPT 30/2012

T.M3 TBHT TEST

Dummy  
TARGET

NO TARGET

OL

TARGET MOUNTED  
NO ELECTRICAL BOLTS

OL

TBHT CENTRE BOLT

OL

TBHT RIGHT BOLT

4.95 mm

TBHT LEFT BOLT

4.55 mm

NiO

TARGET INSTALLED

4.35 mm

Leak Check

$0.0 \times 10^{-04}$  Torr

$0.0 \times 10^{-9}$  atm-cc/sec

Sept 27, 2013

C→D 1.8 mΩ centre bolt removed

C→D OK all bolts removed

C→D OK Left nut in place

C→D 5.126 mΩ Right nut in place  
Left nut.

C→D 2.173 mΩ all nuts in place.

C→D OK Target Removed

~~Target~~ wire 0.2399 Ω  
~~target~~ wire + tary 0.2479 Ω

Sept 30

C-D No Target OK.

C-D Dummy Tgt

Centre OK

Bolt in

Centre OK

Left Bolt

in

all bolts OK

in

Dummy Target (sic) installed C-D

No Tight bolts - OK

C Tight bolt - 43.763 mΩ

C+L Tight bolts - 5.030 mΩ

All Tight bolts - 1.989 mΩ