

### 4.2 TM3/4 SIS with Target and No External Connections

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

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

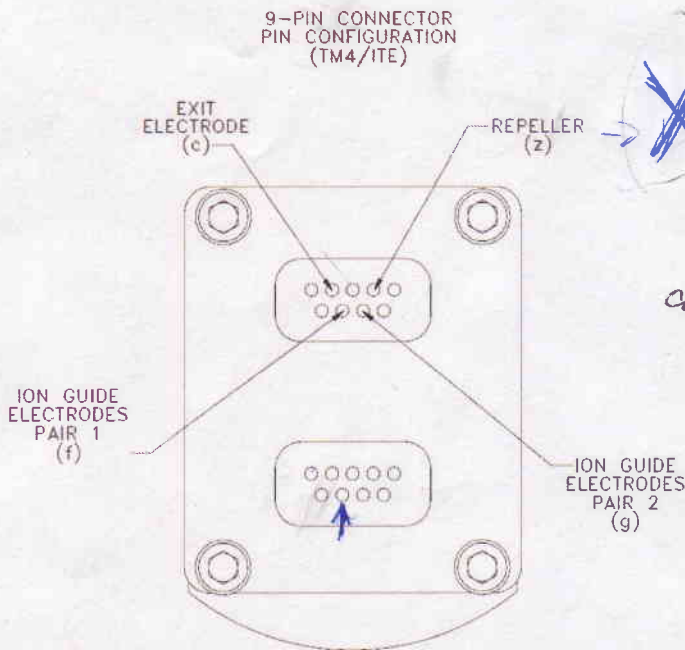
Megger Check (all @ 500V unless otherwise noted)					
	Target (ABCD)	Einzel Lens (Y)	60kV Com (T)	Chassis	EE (I)
Anode (H)					
60kV Common (T)					
Chassis	400M Infinite @ 1000V	OL Infinite @ 1000V	400M Infinite		
EE (I)	791M Infinite	OL Infinite	788M Infinite		
Einzel Lens (Y)	OL Infinite				

Conductance Check [mΩ]						
A - B	A - C	A - D	B - C	B - D	C - D	
5.064 4 - 5.7	5.141 5 - 6.8	4.898 4 - 5.3	4.527 5 - 6.8	4.281 4 - 5.3	4.251 4 - 5.5	

Backg. leak rate:	HS leak rate:
[atm-cc/s] < 5E-9	[atm-cc/s] < Backg. leak rate

Target: UC <sub>x</sub> #20 1G-LIS	Date: May 16 2017
Location: SAC CS SHCpost	Signature: D WANG T CAVE

## 5 Additional electrical tests for IG-LIS Target Assemblies



X or V

act: 500 V

V → C 97 MΩ

Table 1: Megger Test @500V unless otherwise noted

	Exit Electrode (c)	Repeller (Z) X	Ion Guide 1 (f)	Ion Guide 2 (g)
Repeller (Z) X	OL	X		
Ion Guide 1 (f)	OL	<del>OL</del> 600M V		
Ion Guide 1 (g)	195M	<del>45M</del> 44M	43M	
Heat Shield (T)	91M	<del>OL</del> short	660M	40M
Target (ABCD)		<del>74M</del> 244K		
EE (I)	814M			

All values expected to be OL.

Target: UC, #20	Date: May 16 2017
Location: SHC CS SHCpost	Signature: DWANG T CAVE