

Target Module with Target Check		
Document-75583	Release No. 1	Release Date.: 2013/12/11

16 LIS
4.2 TM3④SIS 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	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				

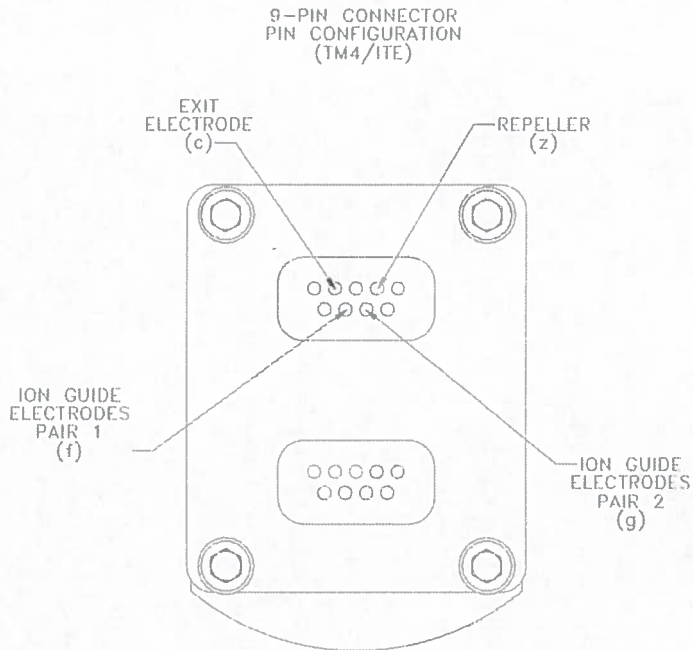
Megger Check (all @ 500V unless otherwise noted)					
	Target (ABCD)	Einzel Lens (Y)	60kV Com (T)	Chassis	EE (I)
Anode (H)					
60kV Common (T)					
Chassis	610K	914M			
	410K	Infinite			
EE (I)	380M	OL	378M		
	Infinite @ 1000V	Infinite @ 1000V	Infinite		
Einzel Lens (Y)	890M	873M	500M	362M	
	Infinite	Infinite	Infinite	Infinite	
Einzel Lens (Y)	OL				
	Infinite				

Conductance Check [mΩ]						
A - B	A - C	A - D	B - C	B - D	C - D	
5.039	4.885	4.588	4.465	4.170	3.935	
4 - 5.7	5 - 6.8	4 - 5.3	5 - 6.8	4 - 5.3	4 - 5.5	

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

Target: UC # 16	Date: 2016-06-07
Location: SHC CS SHCpost	Signature: David Wang

5 Additional electrical tests for IG-LIS Target Assemblies



tested after
reinstallation of target
UGx16

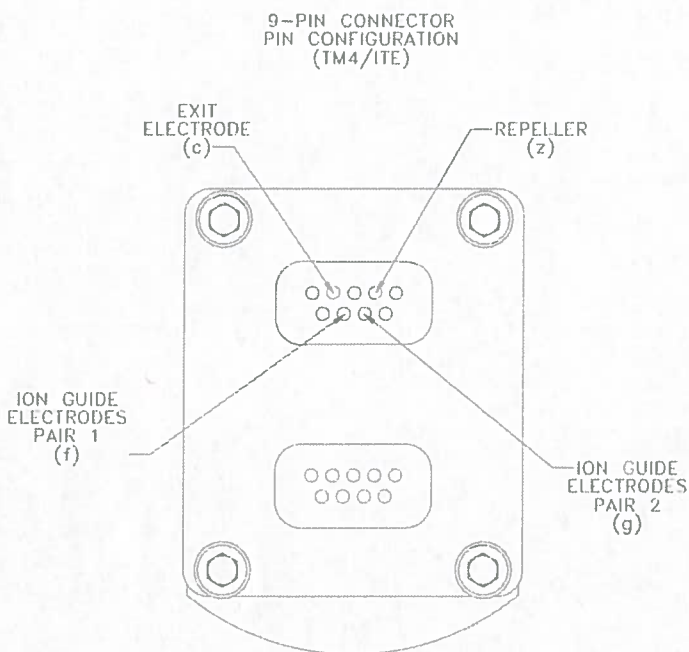
Table 1: Megger Test @500V unless otherwise noted

	Exit Electrode (c)	Repeller (z)	Ion Guide 1 (f)	Ion Guide 2 (g)
Repeller (z)	30M			
Ion Guide 1 (f)	340M	OL		
Ion Guide 1 (g)	94M	94M	6.8M	
Heat Shield (T)	OL(250V)	OL(250V)	123M	25M
Target (ABCD)		OL(250V)		
EE (l)	490M			

All values expected to be OL.

Target: UGx16	Date: 2016-06-07 3:50 PM
Location: SHC CS SHCpost	Signature: David Wang

5 Additional electrical tests for IG-LIS Target Assemblies



first time test
short "z" and H/S

Table 1: Megger Test @500V unless otherwise noted

	Exit Electrode (c)	Repeller (Z)	Ion Guide 1 (f)	Ion Guide 2 (g)
Repeller (Z)	8M			
Ion Guide 1 (f)	OL	66M		
Ion Guide 1 (g)	195M	19.5M	5.82M	
Heat Shield (T)	1M	dead short 0.52	112M	20M
Target (ABCD)		380K		
EE (I)	467M			

All values expected to be OL.

Target: UCx 16	Date: 2016-06-07 @ 12:30 PM
Location: SHC CS SHCpost	Signature: David Wang