

Target Module with Target Check		
Document: 75583	Release No. 5	Release Date: 2022-06-10

4 - 5.7	5 - 6.8	4 - 5.3	5 - 6.8	4 - 5.3	4 - 5.5	4 - 5
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Backg. leak rate:		HS leak rate:	
[atm-cc/s]	< 5E-9	[atm-cc/s]	< Backg. leak rate

Target: Nb #10	Date: 2028-08-08
Location: HC CS HCpost	Signature:

Nb #10 IGILIS AT NHC

4.2 TM2/3/4 SIS with Target and No External Connections

Shunts installed and tightened E-F-G-H-T-J	
FEBIAD coil shunts <u>installed</u> and tightened PQUR for TM3/4, RU only for TM2	

	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			

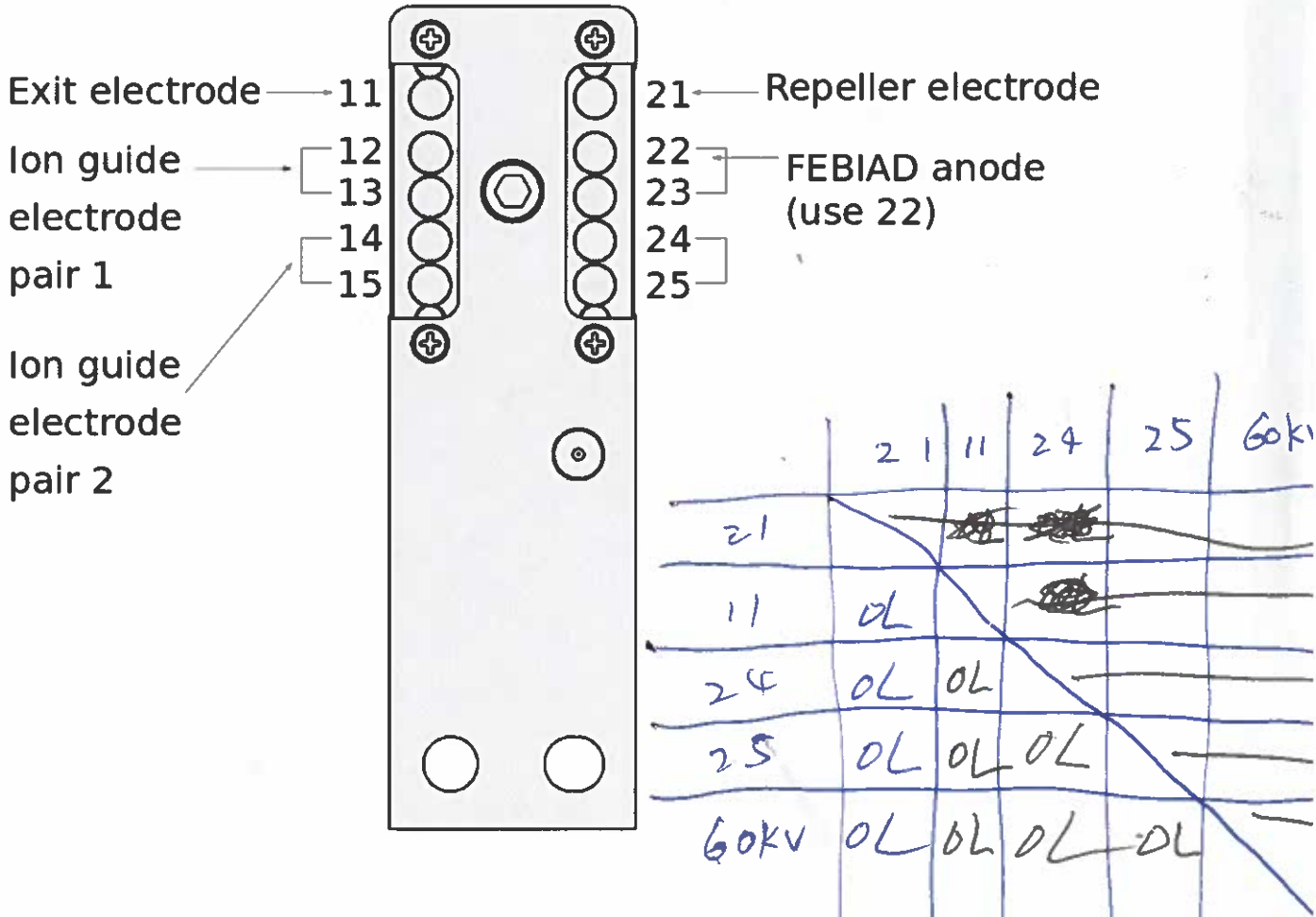
	Megger Check (all @ 500V unless otherwise noted)								
	Target (ABCD)	Einzel Lens (Y)	60kV Com (T)	Chassis	EE (I)				
Anode (H)									
60kV Common (T)						13.7M	OL		
						@ 250V under vacuum only	Infinite		
Chassis						497M	OL	513M	
						Infinite @ 1000V	Infinite @ 1000V	Infinite	
EE (I)						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
7.138	6.171	6.178	6.272	6.254	5.250
4 - 5.7	5 - 6.8	4 - 5.3	5 - 6.8	4 - 5.3	4 - 5.5

Backg. leak rate:	0.0×10^{-9}	HS leak rate:	0.0×10^{-9}
[atm-cc/s]	< 5E-9	[atm-cc/s]	< Backg. leak rate

Target: <u>N₆#10</u>	Date: <u>2023-08-10</u>
Location: <u>NHC</u> CS HCpost	Signature:

5 Additional electrical tests for IG-LIS Target Assemblies



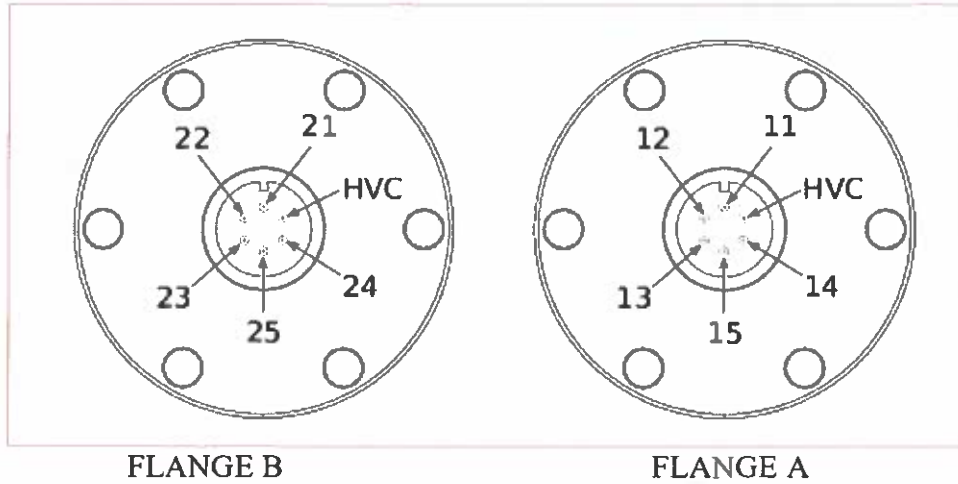


Table 1: Continuity test at hot cell. Megger test @250V in TCS with turbos on.

	Exit Electrode 1-1(flange A)	Repeller 2-1(flange B)	Ion Guide 1 1-2(flange A)	Ion Guide 1 1-3(flange A)
Repeller 2-1(flangeB)	OL			
Ion Guide 1 1-2(flangeA)	OL	OL		
Ion Guide 1 1-3(flangeA)	OL	OL	0	
Heat Shield (T)	OL	OL	0	0
Target (ABCD)		OL		
EE (I)	OL			

All values expected to be OL.

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Before target installation: All pins are insulated to each other and to 60kV bias.