

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

| | | 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 | 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) | 15.5M | OL | | | | |
| | @250V under vacuum only | Infinite | | | | |
| Chassis | 517M | OL | 667M | | | |
| | Infinite @ 1000V | Infinite @ 1000V | Infinite | | | |
| EE (I) | OL | OL | OL | OL | | |
| | Infinite | Infinite | Infinite | Infinite | Infinite | |
| Einzel Lens (Y) | OL | | | | | |
| | Infinite | | | | | |

| Conductance Check [mΩ] | | | | | | |
|------------------------|-------|-------|-------|-------|-------|--|
| A-B | A-C | A-D | B-C | B-D | C-D | |
| 9.774 | 6.090 | 6.406 | 8.809 | 9.119 | 5.390 | |
| 4-5.7 | 5-6.8 | 4-5.3 | 5-6.8 | 4-5.3 | 4-5.5 | |

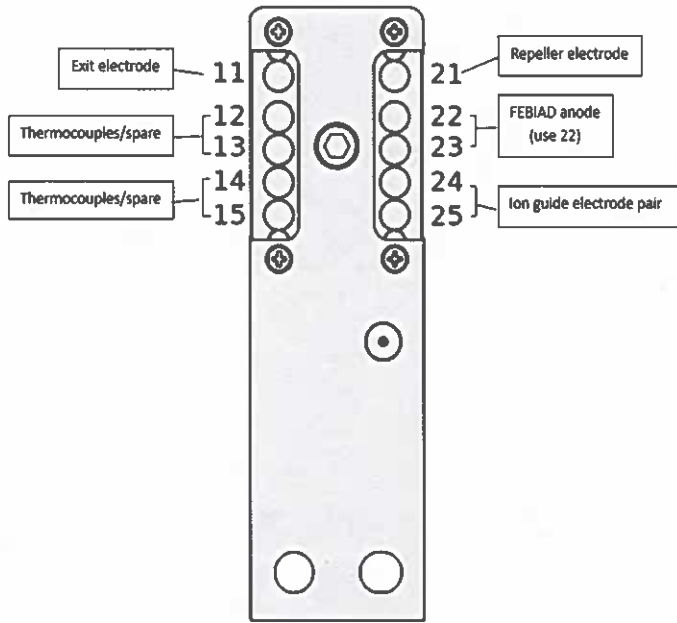
| | | | |
|-------------------|-------------------------------------|---------------|-------------------------------------|
| Backg. leak rate: | 2.0 2.0×10^{-9} | HS leak rate: | 2.0 2.0×10^{-9} |
| [atm-cc/s] | < 5E-9 | [atm-cc/s] | < Backg. leak rate |

| | |
|-----------------------------|-------------------------------|
| Target: N ₆ # 11 | Date: 2023-08-28 |
| Location: HC CS HCpost | Signature: <i>[Signature]</i> |

~~HC~~ NHC

[Signature]

Additional electrical tests for IG-LIS Target Assemblies



12, 13, 14, 22, 23
to 60kV bias — Short

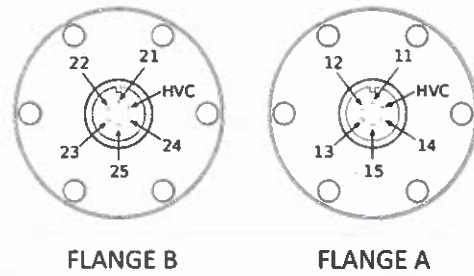


Table 1: Continuity test at hot cell. Megger test @250V in TCS with turbos on.

| | Exit Electrode 1-1(flange A) | Repeller 2-1(flange B) | Ion Guide 1 2-4(flange B) | Ion Guide 1 2-5(flange B) |
|-----------------------------|---------------------------------|---------------------------|------------------------------|------------------------------|
| Repeller 2-1(flangeB) | OL | | | |
| Ion Guide 1 2-4(flangeB) | OL | OL | | |
| Ion Guide 1 2-5(flangeB) | OL | OL | OL | |
| Heat Shield (T) | OL | OL | OL | OL |
| Target (ABCD) | | OL | | |
| EE (I) | OL | | | |

All values expected to be OL.

| | |
|---|---|
| Target: Nb # 11 | Date: 2023-08-23 |
| Location: HC CS HCpost | Signature: <i>[Handwritten Signature]</i> |

NMC ~~HC~~

[Handwritten Signature]