

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 | 268MSΩ Infinite @ 1000V | 862MSΩ Infinite @ 1000V | 263MSΩ Infinite | | |
| EE (I) | 610MSΩ Infinite | 966MSΩ Infinite | 577MSΩ Infinite | | |
| Einzel Lens (Y) | 913 Infinite | | | | |

| Conductance Check [mΩ] | | | | | | |
|------------------------|---------|---------|---------|---------|---------|--|
| A - B | A - C | A - D | B - C | B - D | C - D | |
| 5.391 | 5.314 | 4.865 | 4.880 | 4.430 | 4.384 | |
| 4 - 5.7 | 5 - 6.8 | 4 - 5.3 | 5 - 6.8 | 4 - 5.3 | 4 - 5.5 | |

| | | | |
|-------------------|----------------------|---------------|----------------------|
| Backg. leak rate: | 0.0x10 ⁻⁹ | HS leak rate: | 0.0x10 ⁻⁹ |
| [atm-cc/s] | < 5E-9 | [atm-cc/s] | < Backg. leak rate |

| | |
|----------------------------|-----------------------|
| Target: UC # 8 | Date: 2013-12-05 |
| Location: (SHC) CS SHCpost | Signature: David Wang |

Additional electrical tests for IG-LIS Target Assemblies

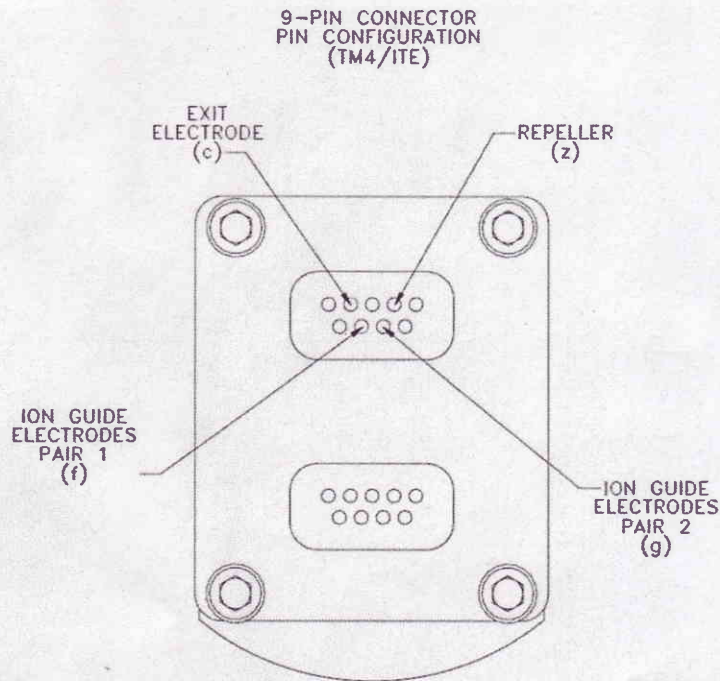


Table 1: Megger Test @500V unless otherwise noted

250V in ()

| | Exit Electrode c | Repeller z | Ion Guide 1 f | Ion Guide 2 g |
|-------------|---------------------|----------------------------|--------------------|------------------|
| Z | OL | | | |
| F | 1652 | (OL) Can't hold voltage | | |
| g | 683MS2 | (OL) c/ | 68.8MS2 | |
| Heat Shield | 696MS2 | 228MS2 | 26.2MS2 | 13.27MS2 |
| Target | (OL) 76852 | (OL) Can't hold voltage | (64.2M) 38.6MS2 | 13.36MS2 (17.0) |
| EE | OL | | | |

All values expected to be OL.

DATE:

INITIALS: