

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

#### 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 <u>installed</u> 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<br>Infinite | OL<br>Infinite  |                |                |        |
| Chassis            | OL<br>Infinite | OL<br>Infinite  |                |                |        |
| EE (I)             | OL<br>Infinite | OL<br>Infinite  | OL<br>Infinite | OL<br>Infinite |        |
| Einzel Lens (Y)    | OL<br>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<br>Infinite @ 1000V | OL<br>Infinite @ 1000V | 400M<br>Infinite |                |        |
| EE (I)   | OL<br>Infinite           | OL<br>Infinite         | OL<br>Infinite   | OL<br>Infinite |        |
| Einzel Lens (Y)                                  | OL<br>Infinite           |                        |                  |                |        |

| Conductance Check [mΩ] |         |         |         |         |         |  |
|------------------------|---------|---------|---------|---------|---------|--|
| A - B                  | A - C   | A - D   | B - C   | B - D   | C - D   |  |
| 4.747                  | 5.395   | 4.184   | 5.153   | 3.939   | 4.566   |  |
| 4 - 5.7                | 5 - 6.8 | 4 - 5.3 | 5 - 6.8 | 4 - 5.3 | 4 - 5.5 |  |

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

|                            |                        |
|----------------------------|------------------------|
| Target: Ta# 46             | Date: Sept 22 2015     |
| Location: (SHC) CS SHCpost | Signature: TCAVE DWANG |