

<sup>2</sup>  
**4.1 ~~TM~~ FEBIAD with Target and No External Connections**

|   |   |
|---|---|
| Shunts installed and tightened E-F-G-H-T-J-RFQ(H) | ✓ |
| FEBIAD coil shunts removed P-Q-R-U                |   |

| Ohm Meter Check    |               |                 |              |          |          |
|--------------------|---------------|-----------------|--------------|----------|----------|
|                    | Target (ABCD) | Einzel Lens (Y) | 60kV Com (T) | Chassis  | EE (I)   |
| Magnet Coil (U, Q) | OL            | OL              | 0            | OL       | OL       |
|                    | Infinite      | Infinite        | Infinite     | Infinite | Infinite |
| Anode (H)          | OL            | OL              | OL           | OL       | OL       |
|                    | Infinite      | Infinite        | Infinite     | Infinite | Infinite |
| 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)  | 39.4M            | OL               | 18.72 M      | 694M     | OL       |
|  | Infinite         | Infinite         | Infinite     | Infinite | Infinite |
| 60kV Common (T)                                  | 602K             | OL               |              |          |          |
|  | Infinite         | Infinite         |              |          |          |
| Chassis  | 256M             | OL               | 253M         |          |          |
|  | Infinite @ 1000V | Infinite @ 1000V | Infinite     |          |          |
| EE (I)   | 922M             | OL               | 906M         | 900M     |          |
|  | Infinite         | Infinite         | Infinite     | Infinite |          |
| Einzel Lens (Y)                                  | OL               |                  |              |          |          |
|  | Infinite         |                  |              |          |          |

| Conductance Check [mΩ] |         |         |         |         |         |       |
|------------------------|---------|---------|---------|---------|---------|-------|
| A - B                  | A - C   | A - D   | B - C   | B - D   | C - D   | Q-U   |
| 5.402                  | 5.515   | 4.866   | 5.323   | 4.677   | 4.737   | 5.634 |
| 4 - 5.7                | 5 - 6.8 | 4 - 5.3 | 5 - 6.8 | 4 - 5.3 | 4 - 5.5 | 4 - 5 |

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

|                                 |  |
|---------------------------------|--|
| Target: <u>SIC #35</u>          | Date: <u>Nov. 22<sup>nd</sup> 2016</u> |
| Location: <u>SHC CS SHCpost</u> | Signature: <u>D WANG</u>               |