

### 4.1 TM30 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	✓

50kV-U  
short  
60kV-Q  
OL

	Ohm Meter Check				
	Target (ABCD)	Einzel Lens (Y)	60kV Com (T)	Chassis	EE (I)
Magnet Coil (U, Q)	OL	OL	→ U short	OL	OL
	Infinite	Infinite	Infinite	Infinite	Infinite
Anode (H) X	OL	OL	OL	OL	OL
	Infinite	Infinite	Infinite	Infinite	Infinite
60kV Common (T)	OL	OL			
	Infinite	Infinite			
Chassis	OL	0	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)	0	541M	0	535M	OL
	Infinite	Infinite	Infinite	Infinite	Infinite
60kV Common (T)	0	535M			
	Infinite	Infinite			
Chassis	535M	0	535M		
	Infinite @ 1000V	Infinite @ 1000V	Infinite		
EE (I)	OL	OL	OL	OL	
	Infinite	Infinite	Infinite	Infinite	
Einzel Lens (Y)	535M				
	Infinite				

Conductance Check [mΩ]						
A - B	A - C	A - D	B - C	B - D	C - D	Q-U
4.674	4.818	4.138	4.599	3.901	3.993	OL
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]	< 5E-9	[atm-cc/s]	< Backg. leak rate

Target: SiC #37	Date: May 1 2018
Location: SHC CS SHCpost	Signature: D WANG