

All measurements made using a lab bench's multimeter
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TSI Safety Loop Test Plan results (section 5):

5.1:

- 4.85V at TP7 (Safety_Loop)
- D14 (SL_Status) is lit
- 18.5V at J12.2 (Safety_Loop_Epal)
- 0.88V at J12.3 (Gen_Fault_Epal). 0V at J12.5 (IMD_Fault_LED). 0V at J12.6 (AMS_Fault_LED)
- 23.95V at TP15 (SL1_IMD_Out). 23.95V at TP16 (SL1_Out)
- D5 (AMS_Coil) and D9 (IMD_Coil) are lit
- D10 (MRESET_Coil) is lit

5.2:

- Voltage at J12.5 (IMD_Fault_LED) before pressing SW2: 23.95V. Voltage after pressing SW2: 0V
- Voltage at J12.6 (AMS_Fault_LED) before pressing SW3: 23.95V. Voltage after pressing SW3: 0V
- TP15 measured 23.96V
- TP16 measured 23.96V
- D5 and D9 are lit

5.3:

- D14 is lit then off when JP12 is disconnected

5.4:

- D10 and D14 are off

5.5:

- D14 is off when JP13 is disconnected

5.6:

- TP15 (SL1_IMD_Out) measured 10mV after JP11 was disconnected
- D9 (IMD_Coil) is off
- J12.5 measured 23.95V
- After reconnecting JP11, J12.5 measured 1mV
- D9 is lit

5.7:

- Disconnected JP10: D5 is off. J12.6 measured 23.94V
- Reconnected JP10: J12.6 measured 25mV, D5 is lit, TP16 (SL1_Out) measured 23.94V