4 – Magnet – HV Insulation tests

**Sensors and actuators used:   
-** Temperatures**:** TT650-657, TT654x-657x, TT660A-661C, TT680A-681C, TT690-693,TT670A-C, TT689A-C, TT666M-669M, TT671M-679M, TT694M-699M, TT680, TT683-688, TT662M-665M

- Pressure: PT660M, PT661M, PT680, PT681

- Valve: FV680

- Control valve: CV581, CV582, CV583  
- Heaters: EH670AC, EH650AB-EH653AB

- PIDs: LIC683, PIC660, PIC660A, PIC681

|  |  |
| --- | --- |
| **The user chooses:** | **Initial conditions:** |
| - Level: ? | - Sequence 16 in step 4 or 17 in step 20 |
| - Pressure: ? |
| - Control valve: ?  NOTE: When SQ4 is active it is NOT possible to switch the exhaust between the gas bag an Kaeser |

Yes

Start

Stop

No

Cables reconnected

Start to update the sensors, heaters, and FV680 controlled by SQ65 or SQ17. LIC683, LIC683, PIC660, PIC660A and PIC681 Off, Open CV680 with slope

Transition to normal operation

Yes

Transition ready

”Smooth” transition to the previous operation mode (SQ16 or 17)  
CV581, CV582, CV583, LIC683, PIC660, PIC660A and PIC681 On

Delay 5 s

HV Tests going on.

Try to keep the pressure constant by controlling CV581-583. When finished reconnect the cables. Warn when LHe drops too much. LIC683, PIC660, PIC660A and PIC681 Off

When cables reconnected Stop the sequence

You will need to disconnect the cables from the insert.

“Do you want continue?”

Preparations for disconnecting the cables

Simulate sensors, Freeze actuators,

Turn off the heaters. LIC683, PIC660, PIC660A and PIC681 Off. CV680 closed

Disconnect the cables. Press Yes when you are done.

Stopping

Start