SQ8 – LHe level measurement

**Sensors and actuators used:**

- Temperature: TT603, TT613, TT642, TT644, TT646, TT647, TT662, TT663, TT666, TT684

- Level: LT600, LT660, LT661, LT670, LT671, LT680, LT681, LT682, LT683, LI660, LI670, LI680

This sequence starts the level measurement.

The level measurement is stopped at the end of the warm-up sequence.

(TT603 & TT613)> 200 K

& LT600 < 5%

Start cool down VB

(TT662 OR TT663)< 100 K

(TT662 & TT663)> 200 K

& LI660 < 5%

Warm-up finished

TT644 OR TT647< 100 K

LT670 & LT671 in operation

(TT644 & TT647)> 200 K

& LI670 < 5%

Temperature control

Waiting

(TT644 OR TT647)< 100 K

(TT644 & TT647)> 200 K & LI680 < 5%

Start cool down Vacuum Insert

Start cool down Magnet OR Liquid

Start cool down Liquid Insert

Start cool down Magnet

User wants to stop

Temperature control

Waiting

Stop

LT680, LT681, LT682, LT683 in operation

Stop

Stop

Heating

Stop EH670AC

(TT670A OR TT670B OR TT670C) > 30°C

(TT670A OR TT670B OR TT670C )< 0°C

LT660 & LT661 in operation

LT660 & LT661 OFF

Stop

Cde Vacuum LT OFF

Stop

Cde Magnet LT OFF

LT680, LT681, LT682, LT683 OFF

(TT603 OR TT613)< 100 K

Temperature control

Waiting

LT600 in operation

LT600 OFF

Stop

Cde LT600 OFF OFF

LT670 & LT671 OFF

Stop

Cde Liquid LT OFF

Heating

Thermal Shield

Start EH670AC

Temperature control

Waiting

Subsequence

Subsequence

Subsequence

Subsequence

Subsequence