SQ14 – Cavity - Standby at 40 K

**Sensors and actuators used:**

- Temperature: TT664, TT665

- Pressure: PT660

- Flow rate: FT581

- Valve: FV640, FV641

- Control valve: CV601, CV581

- Level: LI660, LI670

|  |  |
| --- | --- |
| **The user chooses:** | **Initial conditions:** |
| - Level: LI660Maxi, LI660mini, LI670Maxi, LI670mini | - Liquid or Vacuum insert selected  - Sequences from 1 to 3 stopped  - Sequences 10, 12 and 13 stopped  - Sequence 8 in operation |
| - Temperature: TT665Maxi, TT665mini |
| - Pressure: PT660setpoint |
| - Flow: FT581setpoint |
| - Control valve: CV601%opening, CV581%opening |

Standby Liquid

Stop

Close FV640, FV642

CV581 regulated

PT660=PT660setpoint

Stop

Conditioning

Open FV640, FV642

CV581 regulated

PT660=PT660setpoint

CV601 opened & controlled

FT581<FT581setpoint

CV581 regulated

PT660=PT660setpoint

FV640, FV642 opened

FV640 closed

(TT665 & TT664) < T665mini OR LI670>LI670Maxi

(TT665 OR TT664)>TT665Maxi & LI670<LI670mini

Stop cooling

Close CV601

CV581 regulated

PT660=PT660setpoint

FV640, FV642 opened

Cool down LHe

Standby Vacuum

Stop

Close FV641, FV643

CV581 regulated

PT660=PT660setpoint

Conditioning

Open FV641, FV643

CV581 regulated

PT660=PT660setpoint

CV601 opened & controlled

FT581<FT581setpoint

CV581 regulated

PT660=PT660setpoint

FV641, FV643 opened

FV641 closed

(TT665 & TT664) < T665mini OR LI660>LI660Maxi

(TT665 OR TT664)>TT665Maxi & LI660<LI660mini

Close CV601

CV581 regulated

PT660=PT660setpoint

FV641, FV643 opened

Cool down LHe

TT665 OR TT664 > TT665Max

TT665 OR TT664 > TT665Max

Stop

Standby

Stop cooling

Stop

Standby