SQ5 – Valve Box thermal shield cooling

Sensors and actuators used:
- Temperature: TT700, TT704, TT705, TT706, TT707
- Valve: EV700
- Control valve: CV700
- Heater: EH700

The user chooses:
- Temperature: TT700L, TT700H, TT705L, TT705H, TT700C, TT700W
- Control valve: CV700%opening

1/1

0 Stop	

Valve Box, start cooling

4 Starting LN2 flow	Opening CV700, slope 10%/s, Open EV700

TT704 < 200 K or TT706 < 200 K

Subsequence

Start GN2 heating	Start EH700

TT700 >TT700H OR Stop

Stop heating	Stop EH700

Stop	TT700 <TT700L

6 Start LN2 Circulation	CV700 opened Open EV700

(TT705 OR TT707)<TT705L OR TT700<TT700C OR Stop

Subsequence

Stop LN2 circulation	CV700 opened Close EV700

(TT705 OR TT707)>TT705H & TT700>TT700W

Stop

8 Close filling valve	Closing CV700, slope 10%/s

CV700 closed