

Sensors and actuators used:

- Pressure: PT660, PT681
- Flow rate: FT581, FT583
- Valve: FV640, FV642, FV680, FV681
- Control valve: CV601, CV602, CV581, CV583, CV680, CV644
- Level: LI680, LT682, LT683
- Temperature: TT662, TT665, TT680, TT685, TT644
- Heater: EH641 (set High T 60 K and Low T to 50 K; turned on under condition $TT664 > 80\text{ K}$)

The user chooses:

- Levels: LI680Maxi, LT682setpoint, LT683setpoint
- Pressure: PT660Max, PT681Max, PT681setpoint, PT660setpoint
- Flow: FT581Max, FT581setpoint, FT583Max, FT583setpoint
- Control valve: CV601%opening, CV602%opening, CV581%opening, CV583%opening, CV680%opening
- $\Delta T/\Delta L_{\text{magnetMax}}$ ($TT665 - TT662$)/ ΔL_{magnet} , $dT/dt_{\text{magnetMax}}$ ($TT662$), ΔL_{magnet}
- $\Delta T - T_{665} - T_{\text{mixed}}$, where T_{mixed} is temperature of the mixed (warm and cold) GHe
- Temperature: TT680setpoint, TT685Max

Initial conditions:

- Magnet insert selected
- Sequences from 1 to 3 stopped
- Sequences from 16 to 18 stopped
- Sequence 8 in operation



