

START SEQUENCE:

- 1) IF NOT FILLED, OPEN MV-1 AND FILL TANK BY D2O.
- 2) START PERISTALTIC PUMP (PMP-1) WITH 6-20ML/M FLOW.
- 3) TURN ON PELTIER COLD TRAP (PCT-1) AND WAIT FOR TEMPERATURE  $-20^{\circ}\text{C}$ .
- 4) AFTER REACH SET POINT TEMP PCT-1, OPEN SOV-1 AND TURN ON PEM CELL (PC-1).

CONTROL SEQUENCE:

- 1) CHECKING PRESSURE BY PS-1 and PS-2, CHECKING TEMPERATURE BY TC-1.
- 2) ALARM OVERPRESSURE PT-1 - 1100mBara = OPEN SOV-2 + STOP PC-1 TILL PRESSURE DROP.
- 3) ALARM UNDERPRESSURE PT-1 900mBara = OPEN SOV-2 TILL PRESSURE RISE.
- 4) ALARM OVERPRESSURE PT-2 - 1100mBara = OPEN SOV-4 + STOP PC-1 TILL PRESSURE DROP.

STOP SEQUENCE:

- 1) TURN OFF PC-1 AND CLOSE SOV-1 AND TURN OFF PMP-1.
- 2) TURN OFF PCT-1 AND TURN OFF PMP-1, OPEN SOV-2 + SOV-4.
- 3) WAIT TO PCT-1 TEMPERATURE  $+10^{\circ}\text{C}$  AND AFTER OPEN SOV-3.
- 4) AFTER 5 MINS, CLOSE SOV-3 AND SOV-2 AND SOV-4.

