

DEUTERIUM GAS GENERATOR

TERMINAL POINTS	
TP-1	DEUTERIUM GAS INLET
TP-2	EMERGENCY AIR VENT
TP-3	AIR VENT
TP-4	OXYGEN VENT
TP-5	D2O FILL INLET
TP-6	D2O DRAIN
TP-7	WET DEUTERIUM GAS OUTLET
TP-8	DRY DEUTERIUM GAS OUTLET

CONTROL SEQUENCE

START SEQUENCE

- 1) IF NOT FILLED (OPEN MV-1 AND FILL V-1 WITH D2O (DEUTERIUM OXIDE), CLOSE MV-1.)
- 2) START PERISTALTIC PUMP (PMP-1) (CHECK SPEED 1-20ML/MIN).
- 3) TURN ON PELTIER COLD TRAP MODULE (PCD-1), WAIT TO (PCD-1) TEMPERATURE -15°C.
- 4) OPEN SOV-1 AND TURN ON REVERSIBLE FUEL CELL (PEM-1).
- 5) FULL TIME CHECKING FLOW LEVEL IN V-3, SET-POINT : TURN OFF PEM-1.

STOP SEQUENCE

- 6) TURN OFF REVERSIBLE FUEL CELL (PEM-1), CLOSE DEUTERIUM OUTLET (SOV-1).
- 7) TURN OFF PELTIER COLD TRAP MODULE (PCD-1), STOP PERISTALTIC PUMP (PMP-1).
- 8) WAIT TO (PCD-1) TEMPERATURE +15°C, OPEN DRAIN VALVE (SOV-2).
- 9) AFTER 5 MIN., CLOSE DRAIN VALVE (SOV-2).

NOTE: AFTER STEP 9. IN V-1 CAN BE POTENTIALLY EXPLOSIVE ATMOSPHERE (D2+O2)!!

