

//== Daily Test Schedules from Sep. 9 - 13 at WFF

UTTPS Post-Ship and Pre-Flight Functional Tests at Wallops

Mon 9 Sep.

1. Unpack UTTPS and GSE shipping containers.
2. Setup GSE-DAQ (power supplies, readout GSE sensors)
3. Setup UTTPS Power and Data
4. Build up CO2 lines between main CO2 bottle and GSE Box A/B and UTTPS.
5. Build up two GSE chillers and connect Compressed Air drier.

Tue 10 Sep.

1. UTTPS Pre-Functional Tests (Temperature, Pressure sensors, Marotta valves and Heaters)
2. Transfer 5kg CO2 from 50L bottle to GSE 6L vessel.
3. Transfer 5kg CO2 from GSE 6L vessel to ReFill vessel several times.
4. Verify CO2 density of the ReFill vessel at 40°C.
5. Close EVA Hand Valve and Cap "E".
6. Verify leak rate of the EVA Cap "E" over night.

Wed 11 Sep.

1. Transfer 3 kg CO2 from 50L bottle to GSE 6L vessel.
2. Transfer 1.5kg CO2 from GSE 6L vessel to UTTPS Accumulator and Loops.
3. Cool GSE-Box A/B and run GSE gear pump to return sub-cooled CO2 into the UTTPS Pumps.
4. Test four UTTPS Pumps and verify RPM, Current, Flow-Rate and Differential Pressure.
5. Drain CO2 from UTTPS to GSE 6L vessel.
6. Slowly ventilate residual CO2 and monitor APS.
7. Set UTTPS pressurised at 1.5 bar each segment(Accumulator, Loops and downstream of ReFill EVA Hand Valve.

Thu 12 Sep.

1. Close EVA Hand Valves: Accumulator and Pump In/Outlet (F/G).
2. Close F&G with EVA Caps.
3. Dismount GSE fluid lines and remove Gas-Panel from UTTPS.
4. Disconnect UTTPS Power and Data
5. Disconnect all GSE from UTTPS
6. Ventilate CO2 from GSE 6L vessel and GSE Box A/B.

Fri 13 Sep. : Contingency Day

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