TM2 LEAK CHECK 2015-06-30

AT CONDITIONING STATION

HELIUM PRESSURE TEST AT 70 PSI. 2 min each circuit

A Target oven (+) BLR : 0.0×10^{-9} atm.cc/sec

BP : 0.0×10^{-4} torr

No Response

B Target oven (−) BLR: 0.0×10^{-9} atm.cc/sec

BP: 0.0×10^{-4} torr

No Response

C Tube heater (−) BLR: 0.0×10^{-9} atm.cc/sec

BP: 0.0×10^{-4} torr

No Response

D Tube heater (+) BLR: 0.0×10^{-9} atm.cc/sec

BP: 0.0×10^{-4} torr

No Response

P Q Coil 2 BLR: 0.0×10^{-9} atm.cc/sec

BP: 0.0×10^{-4} torr

No Response

Q J Heat shield (L) BLR: 0.0×10^{-9} atm.cc/sec

BP: 0.0×10^{-4} torr. No Response

Heat shield (R) BLR: 0.0×10^{-9} atm.cc/sec

BP: 0.0×10^{-4} torr No Response

R U Coil 1 BLR: 0.0×10^{-9} atm.cc/sec

Bp: 0.0×10^{-4} torr.

Leak detector climbed to 1.0×10^{-8} atm.cc/sec right away. I released helium in 5 seconds and the Leak rate back to 0.0×10^{-9} atm.cc/sec no change on Bp

It will be tested at last again.

E MSP

BLR: 0.0×10^{-9} atm.cc/sec

Bp: 0.0×10^{-4} torr

No Response.

I EE BLR: 0.0×10^{-9} atm.cc/sec

BP: 0.0×10^{-4} torr

No Response

M: GE BLR: 0.0×10^{-9} atm cc/sec

BP = 0.0×10^{-4} torr.

No Response

W = window BLR: 0.0×10^{-9} atm.cc/sec No Response

BP: 0.0×10^{-4} torr

air to vacuum leak check:
Sprayed helium to all servic cap panels, turbo-pumps gauges, bellow, seals on water connections. They are ~~OOPS~~ all good. No Response on Leak detector.

R, U Test again (coil 1) at 40 psi first.

BLR: 0.0×10^{-9} atm.cc/sec

BP: 0.0×10^{-4} torr

BLR climbed to 5.0×10^{-9} atm.cc/sec in 10 seconds, and kind of balanced at $5.0 \sim 6.0 \times 10^{-9}$ atm.cc/sec

Released Helium pressure, the LR Back to 0.0×10^{-9} o

R.U. TEST at 16 psi helium

No leak

at 20 psi helium.
1.4×10^{-9} atm cc/sec

at 25 psi;
2.3×10^{-9} atm.cc/sec

at 30psi helium
2.8×10^{-9} atm.cc/sec
at 35psi helum
4.0×10^{-9} atm.cc/sec
at 40psi;
5.0×10^{-9} atm.cc/sec

at 50psi;
7.1×10^{-9} atm.cc/sec

at 60psi;
9.4×10^{-9} atm.cc/sec