IRIS Pumping and Venting Procedure

December 2018

1 Scattering Chamber

1.1 Pumping Down

- 1. Make sure SEBT2:VV4A and SEBT2:VV4 are closed.
- 2. Start SEBT2:BP4, open SEBT2:PV4 and open SEBT2:RV4 once interlock allows it.
- 3. Wait until pressure on SEBT2:CG4 has fallen below 350 mTorr, then close SEBT2:RV4, open SEBT2:BV4, and start SEBT2:TP4.
- 4. Once SEBT2:TP4 is at full speed, turn on SEBT2:PNG4.

1.2 Venting

1. Switch off SEBT2:TP4. SEBT2:BV4 will close automatically. Wait for TP4 to spin down for ~ 15

Connect Nz

Trecommend to open BV4 while TP4 is

line From exhaust 2. Open SEBT2:VV4 to vent chamber to atmosphere.

Port of TIGRESS

**Doi! Forget to close LN2 valve when finished!* - Let in small amount of air/Nz by quickly

NZ bottle.

2 Monitoring Chamber

Trecommend to open BV4 while TP4 is

Spinning down. wait ~ 3 hrs if available

**Doi! Forget to close LN2 valve when finished!* - Let in small amount of air/Nz by quickly

open - close VV4. Help to slaw TP4 the

rest of the way.

2.1 Pumping Down

- 1. Make sure SEBT2:VV5A and SEBT2:VV5 are closed.
- 2. Start SEBT2:BP5, open SEBT2:PV5 and open SEBT2:RV5 once interlock allows it.
- Wait until pressure on SEBT2:CG5 has fallen below 150 mTorr, then close SEBT2:RV5, open SEBT2:BV5, and start SEBT2:TP5.
- 4. Once SEBT2:TP5 is at full speed, turn on SEBT2:IG5.

2.2 Venting

alhor if available

- 1. Switch off **SEBT2:TP5**. **SEBT2:BV5** will close automatically. Wait for **TP5** to spin down for ≈ 5 min.
- Convected to VV5. 2. Open SEBT2:VV5 to vent chamber to atmosphere.

Use this to slowly increase the pressure to safely slow down the turbo TPS