RSS Dry Air Line, August 24-27, 2009

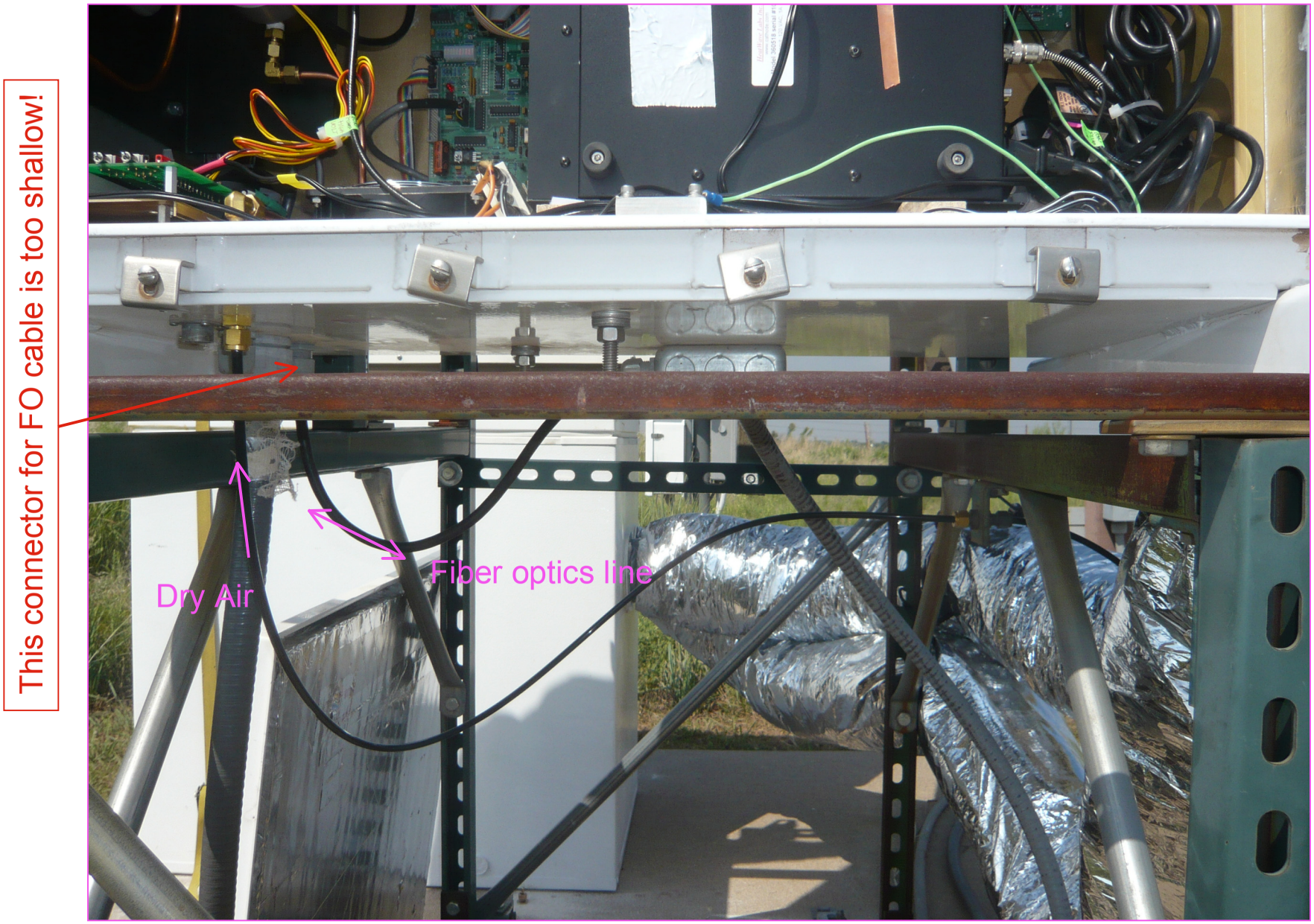
P. Kiedron

Dry air is supplied form the Optical Trailer. The dry air is used for purge of (1) casting and (2) snorkel. The air pressure in the casting is regulated (absolute pressure regulator) and was set to be slightly above the the highest possible air pressure at SGP. The approximately constant pressure in casting assures constant dispersion by prisms and thus minimizes wavelengths shifts of the spectrum. The purge of snorkel should eliminate moisture and water collection in the Spectralon diffuser that is slightly porous.

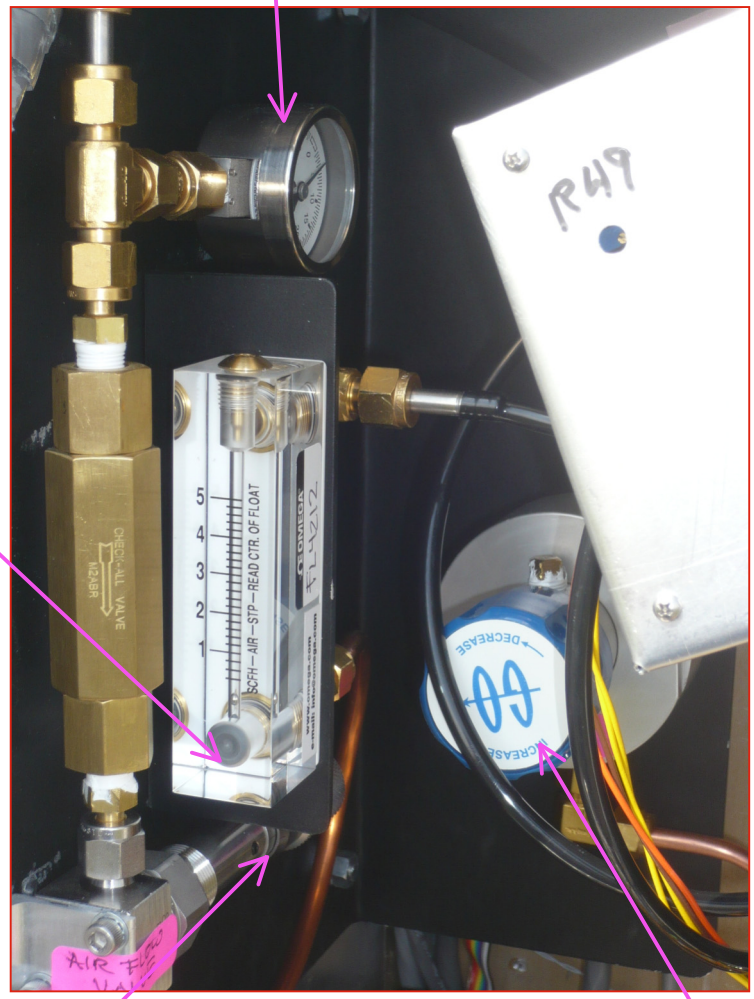
Both pressure and flow level has been set during the redeployment and their readjustment is not expected.

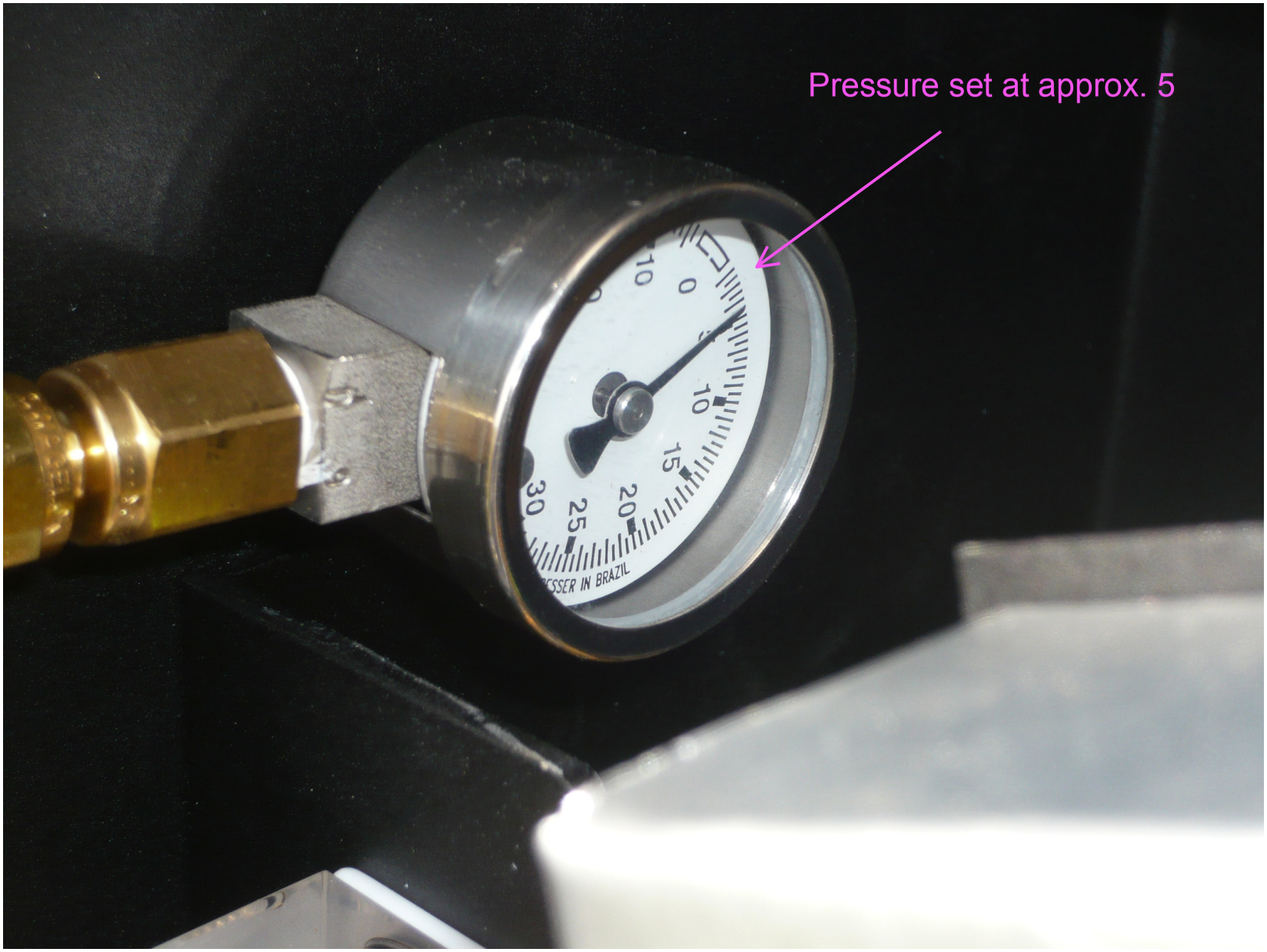
Dry air line to RSS from Optical Trailer

Dry air line into the RSS housing



RSS dry air controls




Pressure set at approx. 5
10
0
10
15
20
25
30
IN BRAZIL