XP911 – Info

Roger,

I put together the following for discussion at the run planning

meeting after the 8:30 mtg on Friday.

This assumes that we won't get worthwhile plasmas until the week of

Mar 2nd. If we get them earlier then we can move things forward. Also

you may recall we discussed to run XP911 for an additional 1/2 day to

expose the sample probe on the Tuesday immediately following the

maintenance week but before running the Li dropper.

Charles

Week of Monday Feb 24th

Continue Sample probe construction

Install RS232 link for 670 B baratron controller

Discharge development for XP 911

o 1 and 2 NB sources, long pulse, H-mode, no minor disruptions

on rampdown, low triangularity, strike point as close as possible to

sample probe, strike point scan over Langmuir probes. NB cryopump

operating normally, modeled after 119827. Also develop an ohmic

version for XP824. (Rajesh, Stephan).

Week of Mar 2nd

1. Lab test Sample probe heaters

2. Friday 6th XP824 ½ day ohmic static gas balance

3. Saturday 7th continue outgassing TVI closed till

end of shift.

Week of Mar 9th

4. Lab test Sample probe heaters, RGA operation, chamber outgassing.

5. Friday 13th XP911 ½ day NBI dynamic gas balance

6. Saturday 14th continue outgassing TVI closed till end of shift.

Week of Mar 16th Maint week

Install Sample Probe – operate TIV, insert into machine, cycle heaters….

Gas calibrations

a. LEAK RATE: Measurement of the NSTX vessel baseline pressure

rise (leak/outgassing) rate.

b. GAUGE CALIBRATIONS: Cross calibration of existing pressure

gauges and D Trend and fast RGA signals and orifice against the new

high accuracy baratron.

c. NB CRYOPUMP SPEED: Measurement of the effective pumping

response of the NSTX neutral beam cryopumps in preparation for

dynamic retention measurements. Needs NBs to be pumping but no plasma

or NB injection.

Week of Mar 23rd Maint week

Contingency

Week of Mar 30th

1. Monday 30th – conditioning NSTX

2. Tuesday 31st XP911 ½ day to expose sample probe.

3. Then XP913 Mansfield Li dropper 1½ day.

TBD with LiTER operation

1. XP824 ohmic static gas balance ½ day with sample probe

2. XP911 NBI dynamic gas balance ½ day with sample probe.

3. XPnn (Kugel) pre LLD characterization