
MHD Experimental Task Group Meeting

S. A. Sabbagh

Columbia University

D. A. Gates

Princeton Plasma Physics Laboratory

MHD ETG meeting – 12/17/2003

Princeton Plasma Physics Laboratory

Run Plan and Machine Capability Guidance CY 2004

❑ Run time constraints

- ❑ Original guidance of 18 run weeks now increased to 21 weeks
- ❑ Original MHD ET allocation of 11 run days should increase to 13
- ❑ The 13 run days does *not* include our contingency allotment
 - estimated 3 - 4 contingency run days for MHD ET

❑ Machine capability

- ❑ OH plasma ops: Jan 19th; NBI ops Jan 26th
- ❑ Possible counter-injection campaign (~ 3 weeks)
 - ET group members will be polled to determine support
- ❑ Maximum allowed toroidal field increases in time
 - Day 1: 4.5 kG
 - Original guidance: week 12: 5.5 kG
 - ❑ High field operation scheduling may be affected by possible counter-injection campaign

XPs to be reviewed 12/17/03

- ❑ XP421: Troyon scaling at high normalized current (Gates)
- ❑ XP415 (completion): Locked mode data – internal vs. external sensor coil comparison (Menard)
- ❑ XP414: Aspect ratio effects near the high β_p equilibrium limit (Sabbagh)