



EP-TSG meeting 04/21/2016

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Agenda:

- TSG review of XP CAE/GAE dynamics with NB2 (Fredrickson)
- Assessment of short-term Run plans
- APS-16 nominations on EP-related work

Machine status as of 04/21, 9:07am ...

- Next Run period beginning no earlier than 05/02
 - Leak developed in NBI liquid-He refrigeration system
 - Issue being addressed, minimum 10-day work (projected)
- Gives some additional time to complete diagnostics installation
 - E.g. UCLA reflectometer
 - Maybe sFLIP, TAE antenna(e)?
- Once NBI restarts, ~2 weeks required before MSE data routinely available
 - Need to condition NB1A up to 90kV (~70kV achieved so far)
 - Need 1 week ops w/ NB1A @90kV to tune filters
- Updated status of other systems/diagnostics:
 - Check Master XP spreadsheet from <u>http://nstx-u.pppl.gov/program/run-coordination</u>
 - See Facility and Diagnostics Status tab



Some EP-TSG XP/XMPs may run in the next Run Period

- Main issue is lack of MSE data
- Which XPs can still provide good physics results without MSE (target: APS, IAEA)? E.g.:
 - CAE/GAE dynamics with NB2 (Fredrickson)
 - FIDA/ssNPA checkout (Liu)
 - Rotation effects on CAE/GAEs (Crocker)
- Other XPs <u>do</u> require MSE (priority 1 only)
 - Beam ion confinement of NB2 (Liu)
 - Characterization of 2nd + 1st NB lines (Podestà)
 - AE critical gradient (Heidbrink)
 - Parametric dependence of TAE avalanches (Fredrickson)



Nominations for APS-16 invited talks

- Deadline for submission: May 11
- Internal deadline, proposals to S. Kaye: <u>April 25</u>

- Two main topics (my opinion) from Experiments
 - Characterization of NB1 vs NB2
 - CAE/GAE physics
- Other possible topics?

