Research Operations Division
Boundary Physics *(H. Kugel)*

- Lithium Evaporators
  - 2 filled units will be emptied on Fill Stands by end Nov.
  - All 4 LITERs & drives and control system will be mothballed
    - Possible use in lithium development lab. during outage
  - Baseline plan is to deploy dual LITERs on Day 1 of Upgrade
- LLD
  - In vessel parts and internal wiring will be left in place initially
    - Plan for NSTX-U Day-1 PFCs remains under development
  - External cables and control racks to be removed and saved in UDARM
- Centrifugal Lithium Granule Injector will be safely stored

Research Operations Division
Diagnostics *(R. Kaita, B. Stratton)*

- Now completing some diagnostic wrap-up tasks prior to removal
  - MSE-LIF measurements with gas-filled torus and PF5 energized with bakeout power supply
    - Successfully completed yesterday
  - Neon glow for FIDA calibrations
  - MPTS stray light measurements and checkout of beam dump window

Research Operations Division
RF systems *(J. Hosea)*

- Antennas will be left in place
- Protective structures will be built for the feedthroughs
- Transmission lines near machine will be boxed and stored outside NTC
- Plan to mock up the antenna on the RF test stand
  - Understand and improve the voltage limit
- Sources will be updated
  - Much of the electronics dates to late 70s and early 80s.
  - Obsolete power tubes will be replaced to the extent possible.
- Aim for maximum reliability of the entire system

Research Operations Division
Physics Operations *(S. Gerhardt, D. Mueller)*

- Aim to provide continuing capability to upgrade and test control system
  - Need real-time data stream to work
  - Relocate 4 VME crates (Cat. 3, Cat. 4, RF, Gas) from test cell to Junction Area, and fiber-couple to FPDP system
- Remove real-time I_p analog calculator electronics from both Cat. 3 and 4 racks
  - Fiber optic transmitters and receivers
  - Modify calculator to accommodate new coils and modified vacuum chamber resistances
- Attempt to complete (post) calibration of gas system before final vent