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

- Liquid Lithium Divertor (LLD) will not be installed until after 2009 run

- Pursuing "dual-track" approach to fabricating Cu-SS-Mo LLD plates
  - SNL: form, laminate SS to Cu, adjust shape, Mo coat
  - PPPL: laminate SS to Cu, bend to shape, Mo coat

- FDR on 12/17 for LLD Controls designed by SNL/NM
  - PPPL design of rack installation, cable trays, cabling in progress

- Continuing development of loading techniques for LLD in L-245 lab.

- Fabricating 3 new LITER units for Li-coating next year (incl. LLD)

- Preparing to install 2 lithium powder droppers for next run

- Installing vacuum interface and support stand on Bay-J lower port for **Material Analysis Particle Probe** (MAPP – Purdue University)

- LPI will be reinstalled to support the NIFS/JHU collaboration (3/09)

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

- **BES** – collaboration with G. McKee (UWisc)
  - Installed oblique mounting tubes for lens assemblies
  - Lenses and optical fibers in procurement
  - UW building filter and detector assemblies
  - Complete installation in opening next year
- **Divertor bolometer** installed
  - Bay J top: 8 channels
  - Bay J midplane: 4 channels
  - Bay I bottom: 8 channels – now with heat shield
- **High-k scattering**: remote control tested and calibrated
- **MSE-LIF** (Nova): install next opening
  - Mezzanine extended to accommodate equipment
  - PDR for system in December
- Now calibrating diagnostics before closing (MPTS, CHERS, ...)

MGB / Team Mtg. / 081204

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

♦ Upgrading HHFW antenna to provide symmetric end feed

  ‣ Design evolved from virtual to actual ground at strap center

  ‣ 12 new feedthroughs installed and leak-checked

  ‣ Now installing new backplates, straps and replacing Faraday shield

  ‣ Expect to complete in-vessel work by 12/15

  ‣ Start run with half strap operating unbalanced

  ‣ Install external coaxial line during maintenance week(s) to provide symmetric balanced operation

Research Operations Division
Physics Operations *(D. Mueller)*

♦ Preparing for β_N feedback control to be implemented next run

♦ Started discussions with LLD group to begin developing discharge scenarios and control strategies for operation with LLD