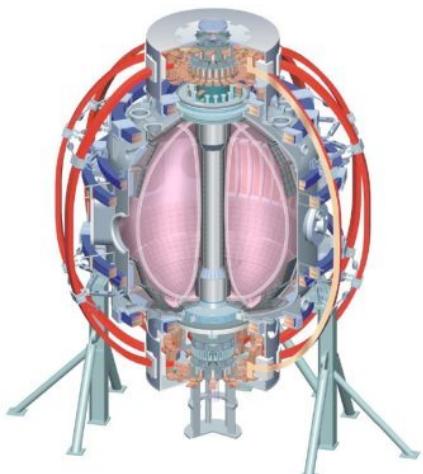


XP LLD-1 Decommissioning

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and the NSTX Research Team**

**NSTX Research Forum
PPPL
December, 1-3, 2009**



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XP LLD-1 Decommissioning

- **LLD-1 Commissioning and Decommissioning**
 - XP LLD-1 Commissioning will start at 205°C. Administrative decision points may allow measurements at higher LLD-1 temperatures (<350°C) depending on the measured thermal response to NBI.
 - XP LLD-1 Decommissioning will raise LLD-1 temperature >350-500°C to evaporate all lithium from the LLD-1 pores prior to venting.
- **Purpose**
 - As the sum total lithium pressure on the plasma due to lithium evaporation and sputtering exceeds the deuterium plasma pressure (~400°C), characterize lithium core concentration, neutron production, edge shielding, SOL physics, and plasma performance.
 - Empty the LLD-1 prior to venting.
- **Method**
 - Raise LLD-1 temperature slowly to 400-500°C and operated at this temperature until all lithium is evaporated from LLD-1.
Use reference discharges for R=0.75m
- **Required Run Time**
 - 0.5-1 day at end of run as the final XP.

