

# Physics Preparation for CDR

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NCSX Physics Meeting

## CDR Timeline

- CDR Scheduled (!) 21 – 23 May
- Final Documents posted and mailed 3 May
- Final Documents ready for merging, duplication **26 April**

## Physics Preparation for CDR

- Evaluate new design
- *Physics Design Document*
  - Update PVR document, extend for PVR & PAC Issues
  - Initial Draft **8 March**; Complete Draft **5 April** Final Doc. **26 April**
- *General Requirements Document*
  - Discuss next week. Finish Draft by **1 Feb**. Finalize for CDR by **1 March**
  - May identify additional analysis needs
- *Experimental Plan*
  - Plans for upgrades, requirements for Diagnostics
  - Finish Draft by **1 March**, Finalize for CDR by **1 April**

## Near Term Analysis Priorities

- Island Healing
  - With Trim coils
  - Direct coil healing
  - Healed fixed boundary, generating healed coils
- MHD Stability convergence study
- Adequacy of M45 plasma boundary region
- S1, S2, S3; Flexibility characterization
- Discharge evolution scenarios for M45
- Finalize trim coil requirements