Shutdown planning

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- Decision
- Boundary conditions
- Shutdown procedure
- Tasks and schedule

Decision on shutdown start

- 16.–17.1. Background review committee with external referees:
  No reason to delay the start of the shutdown.

- 21.1. HERA coordination meeting:
  - H1 and ZEUS will have preparations ready for the March shutdown.
  - Requested length of shutdown:
    ZEUS 17 weeks
    H1 16 weeks
    Hermes 8 weeks
    Machine interlock tests 3–7 weeks
  - Directorate confirms start of shutdown date 3.3.2003.

Boundary conditions

- H1 stays in beam position.
  $\Rightarrow$ access to Spacals, BPC, silicons, CIP.
  No access to FTI, FTD, C4.
- Kryogenic and superconducting lines for GO and GG are not cut.
  GG is raised in situ by ≈ 50 cm.
- HERA-B stays in beam position (most likely)
  $\Rightarrow$ transport VFPS bypass through Hall North.

Shutdown tasks

- Modify collimator C5B at -1.5 m:
  - Reduce thickness from 20 to 5 mm W.
  - Add staircase taper to reduce HOMs.
  - Water cooling.
  - Design in progress, to be reviewed.

- Install Integrated Getter Pump at -1.5 m.
  Design in progress, to be reviewed.
- Install rest gas analyzers at NR 3.6 m and 6 m. Ready
- VFPS bypass cold test at DESY started Mon 20.1.2003.
- The preparation for the CIP repair is on track for the March shutdown.
- Exchange of radiation-damaged Backward Silicon electronics: preparations underway.
- Install LPOL cavity in East straight section.

Time for detector repair

Spacals	13 weeks in Hall North
BPC	11.5 weeks in hall 41
BST	9 weeks in Zeuthen
CST	7.5 weeks at PSI
FST	6 weeks in Zeuthen
CIP	5 weeks in situ