ZEUS Report from the Shutdown 2000

Finished Activities :

Detector repair :

- Repair of CAL front end electronics, photomultiplier bases, and HV supplies.
  Work is continuing.
- Removal and repair of HES skis.
  Work is continuing.
- Repair of BMUON and electronics .
- Repair of FMUON chambers.
- Repair of BAC front end electronics at front and rear yoke endcaps.
  RMUON outer chambers had to be removed and reinstalled.
- Installation of new air cooling system for BAC electronics behind RMUON.

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Changes for LUMI-upgrade :

- Move ZEUS bottom yoke by 10 mm to ring outside.
- Removal of ZEUS beam-pipe.
- Removal of compensator.
- Removal of almost all concrete shielding from the hall.
- Removal of old quadrupole bridges SL/SR and installation of new ones.
- Installation of cryogenics equipment for GO/GG magnets, still going on.

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Detector upgrades :

- Installation of a silicon strip Micro-Vertex-Detector (MVD)

- Replacement of he old beam-pipe by a new one with central part of Aluminum-Beryllium alloy.

- Upgrade of the forward tracking detector (FDET) :
  Four layers of transition radiation detector will be replaced by a Straw-Tube-Tracker (STT).

- Replacement of the luminosity monitor detectors :
  - The photon calorimeter is being rebuilt, the filter in front will be equipped with two aerogel detectors ;
  - A pair spectrometer will be installed as an additional detector to measure independently the luminosity;
  - A small tagging calorimeter will be installed at 8m from the IP to improve the acceptance determination of the two luminosity detectors.

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Work still to be done :

- Finish cryogenics installation
- Reinstall all concrete in the hall
- Install MVD
- Reinstall repaired FDET with STT
- Install GG and GO magnets and their infrastructure
- Finish HES repair
- Finish CAL front end electronics repair
- Close F/RCAL, recable F/RCAL and F/RHES, test CAL and HES.
- Remaining infrastructure work, e.g. interlocks etc.