Data and Signals to be Exchanged Between the LHC Machine & Experiments (EDMS 701510)

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Comments from Engineering Check

- Experiment Beam Interlocks
  - Software Interlocks are also able to beam dump.
- LHC Machine Beam Instrumentation
  - Position of Collimators (particularly TCTs) to be communicated to experiments.
  - Development of BSRL monitor to measure total longitudinal distribution has been stopped.
    - This information will therefore not be available in Phase I
- General Machine Timing & Safe LHC Parameters
  - See presentation from J. Lewis
  - Requirements from experiments are needed.
- TTC
  - Provision of 40.08 MHz timing signal for period from injection to colliding mode.
- 2 ATLAS and 8 TOTEM Roman Pot BPMs
  - Horizontal and vertical beam positions to be transmitted every second.