Agenda

1. Commissioning Phases:

   In the lab, in situ, Control Room (local, beam)

2. Controls Commissioning Procedures

   Procedures, pre-requisites, scheduling

3. Where will commissioning take place:

   Office, lab, UA, RE, SR, BCR?

4. Infrastructure required:

   Electrical Power, UPS, Cables, fibres, racks, network, video links, timing (calendar, slow, fast), fieldbus, PLC, Gateway, Front End, Back-end, Console (fixed, mobile, wireless), control room infrastructure

   Operating Systems, 3rd party software, backup and restore, remote monitoring and restart, IT Oracle Service, Technical Services

5. Controls facilities required:

   Data Exchange, Database support (reference, equipment, configuration), Application Software, Alarms, Logging, Post Mortem, Real Time, Analogue Signals, 24 hour support

6. Operational Dependencies on other Systems

   Technical Services, Interlocks, Cryogenics, Quench Protection, Timing, Analogue Signals …

7. Dates, durations, major milestones:

   Of commissioning and when infrastructure, controls facilities and other systems must be ready