

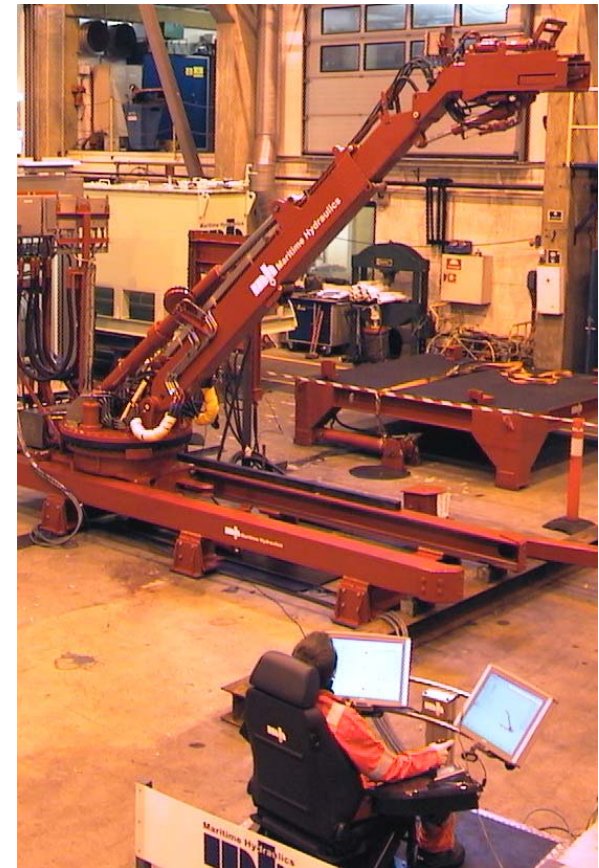
Fig. 1 - Equipment Testing

- FAT Tests

- Screen System
- Drillers Operation Chair
- Equipment Testing
 - MH Equipment
 - Other Suppliers

- Integration Tests

- Communication /Interfaces
- Connect Drillers cabin with Local Instrument Rooms
- MH's Workshop/LAB



Testing and Commissioning

■ Level 2

- Testing of actual PLC's for each machine into the actual control system. Ref. fig. 2.

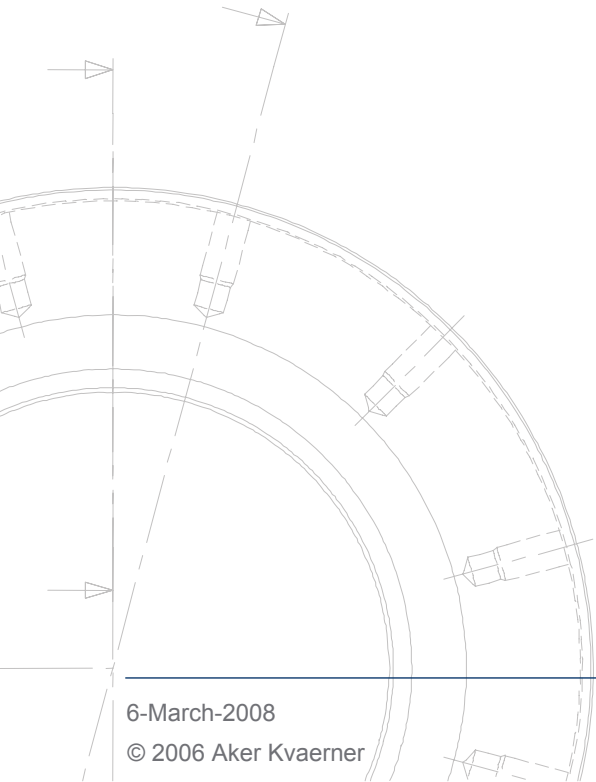
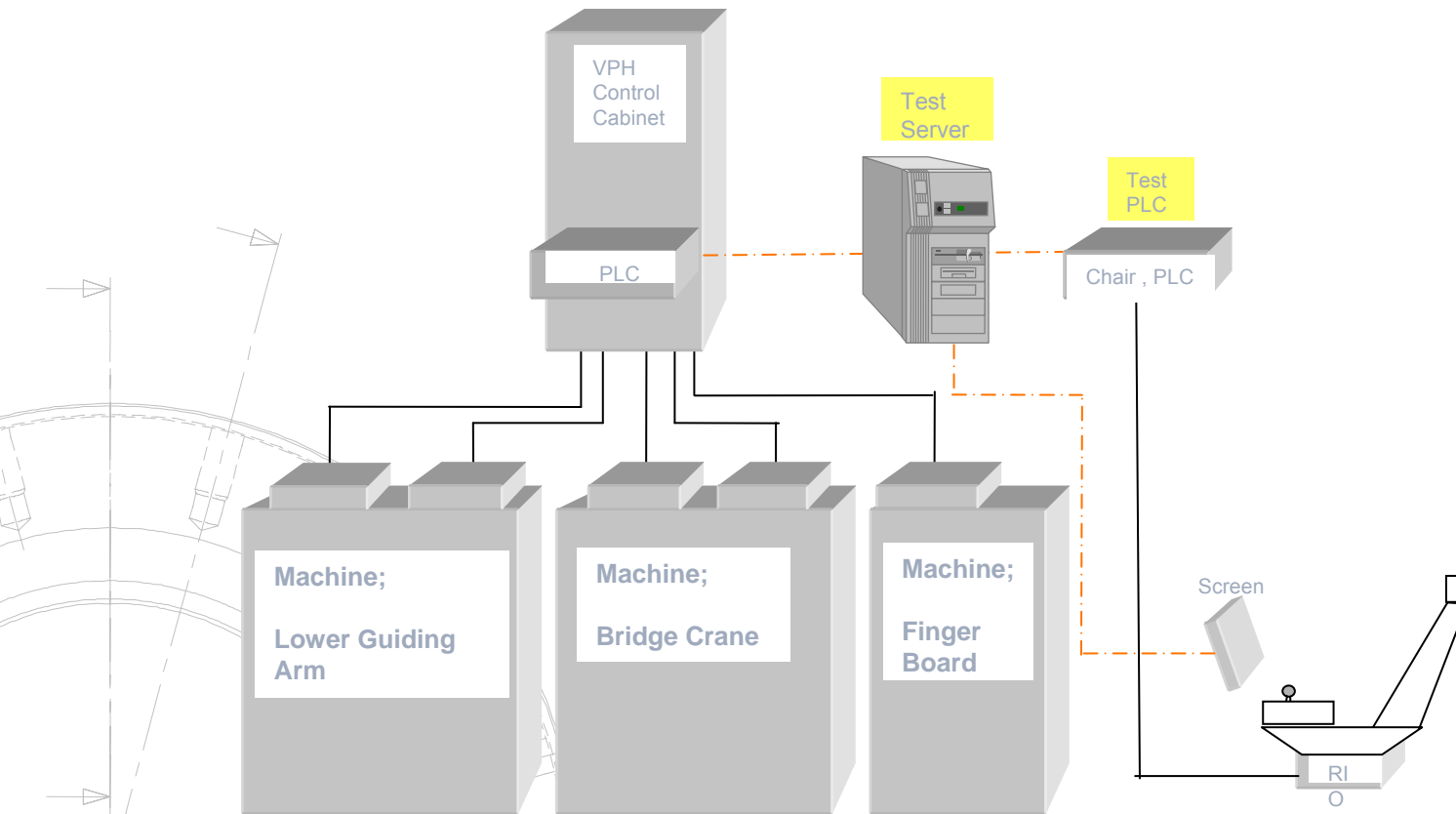




Fig. 2 – FAT of LGA, BRC & Finger Board with Control System

Including PLC's, DrillView server, Chair





■ Level 3

- All PLC's connected and a complete simulation to be done. Ref. fig. 3.

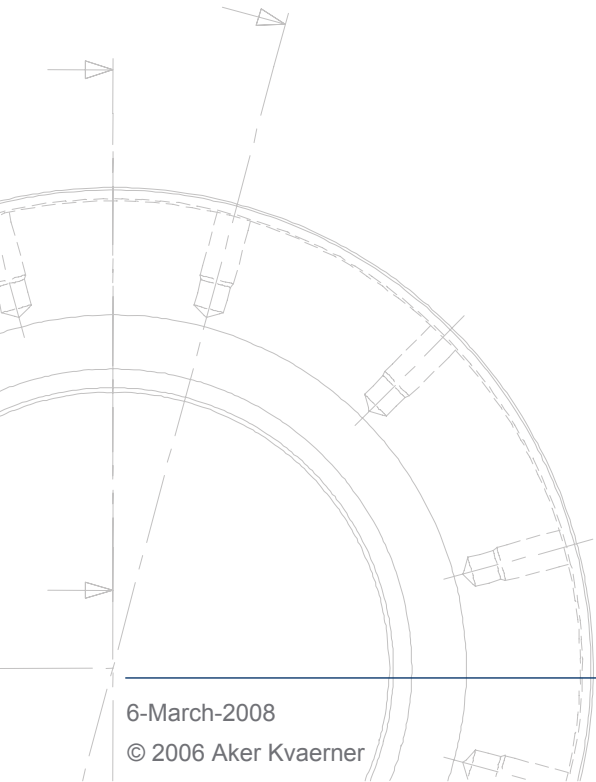
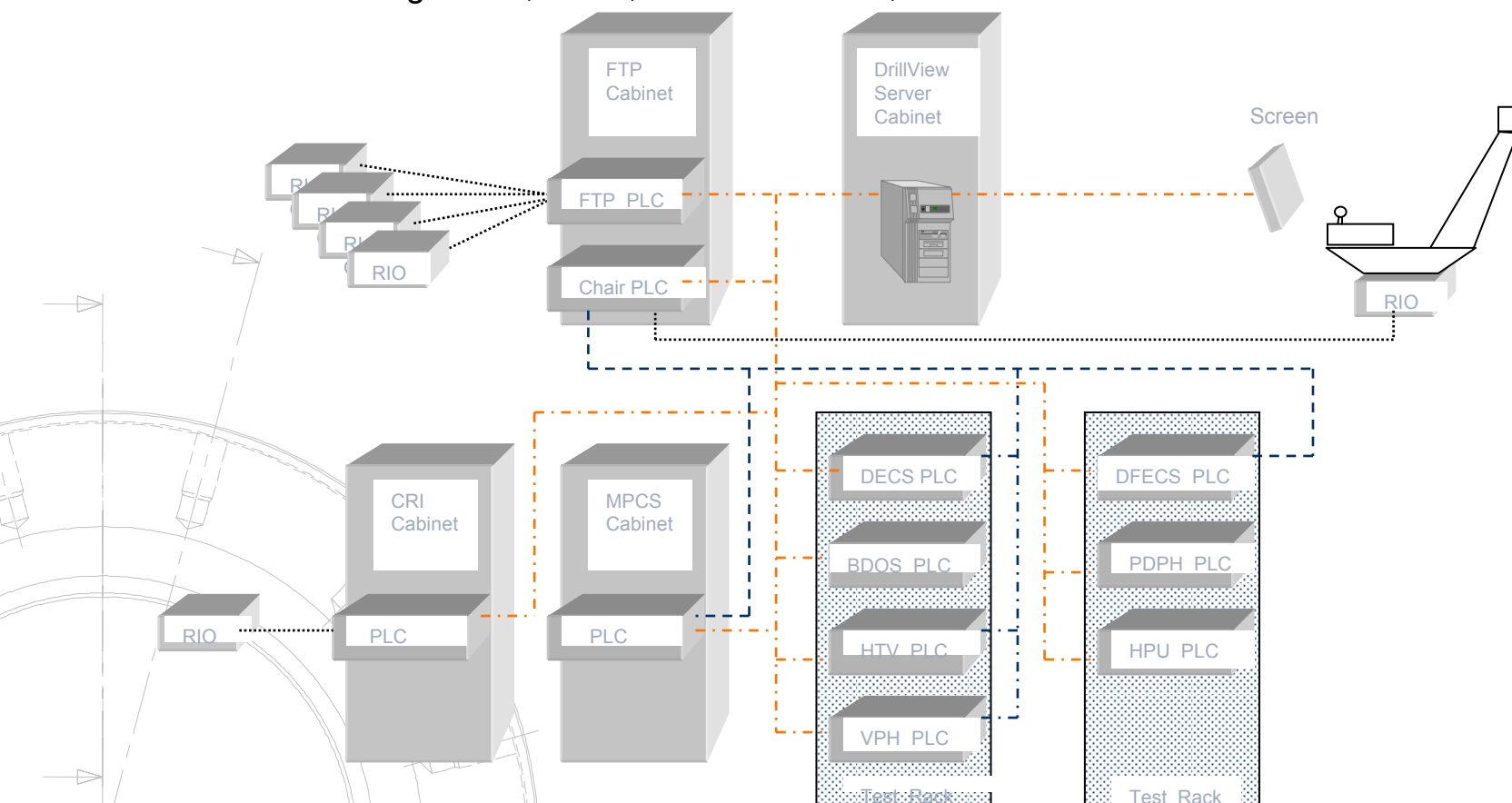




Fig. 3 – LAB test set-up for simulation and FAT

Including PLC's, RIO's, DrillView Server, Chair

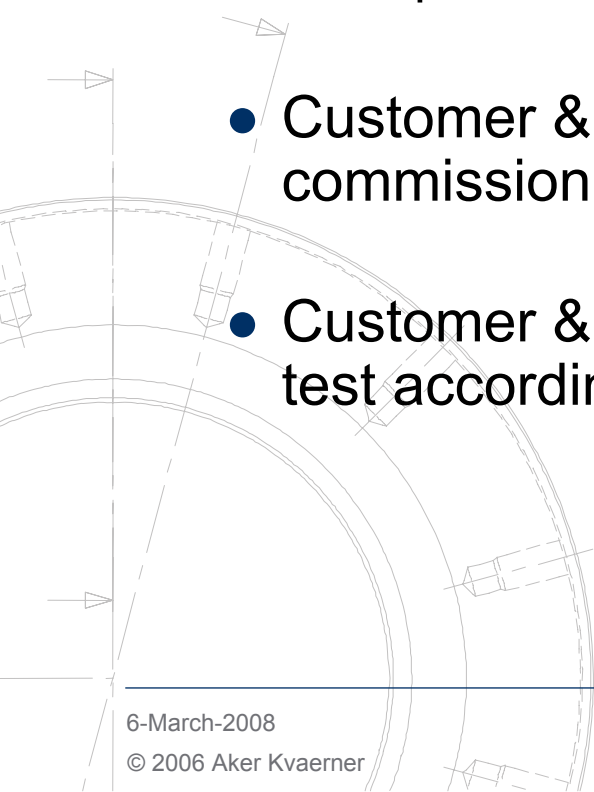
--- Chair network
--- Main network





■ Level 4

- MC complete
 - Yard to complete MC Dossier, AKMH can supervise
- Customer & AKMH can complete the commission work according to figure 4
- Customer & AKMH can complete the integration test according to figure 4





- Commissioning & Integration test to be performed according to procedures

Note: Control system and all equipment will be involved in these operations.

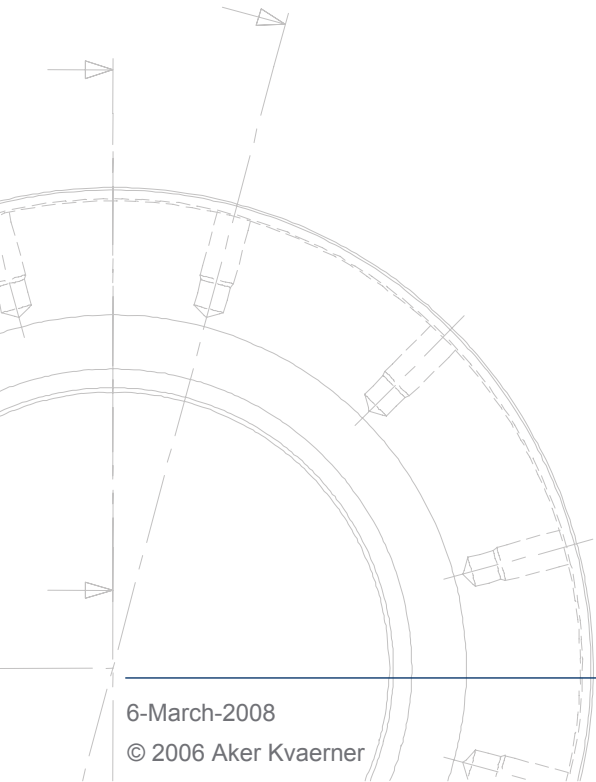
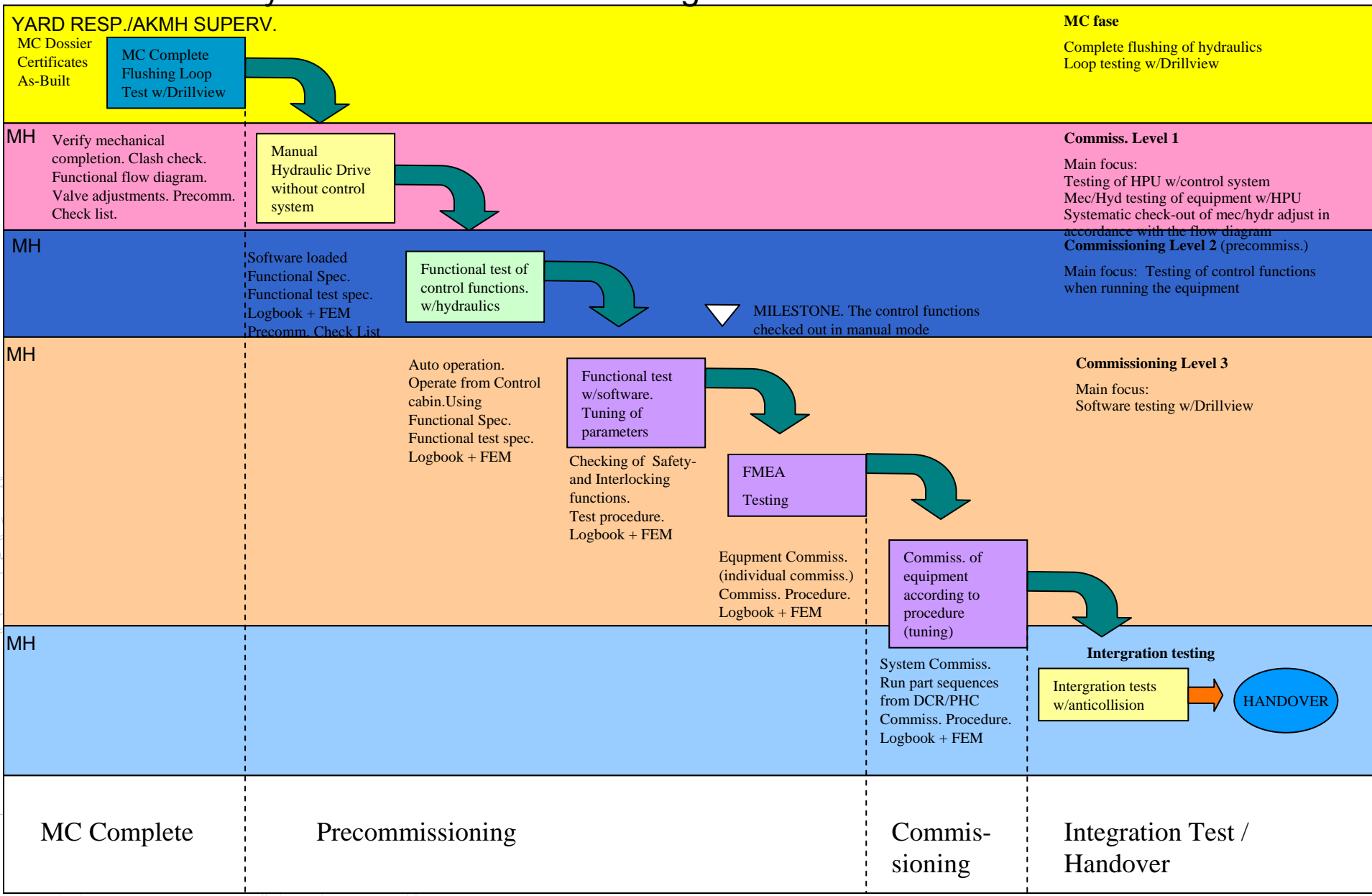


Fig. 4 – Commissioning Levels

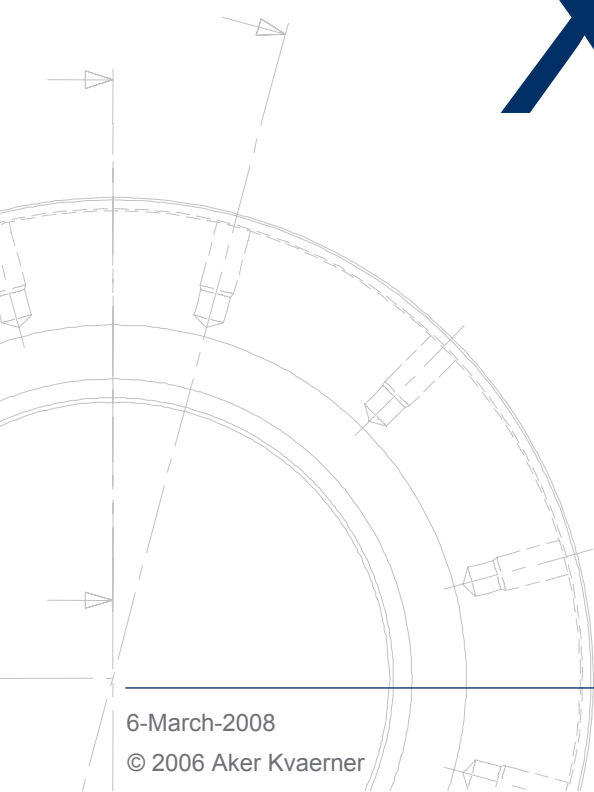


Key Activities – Commissioning Phase





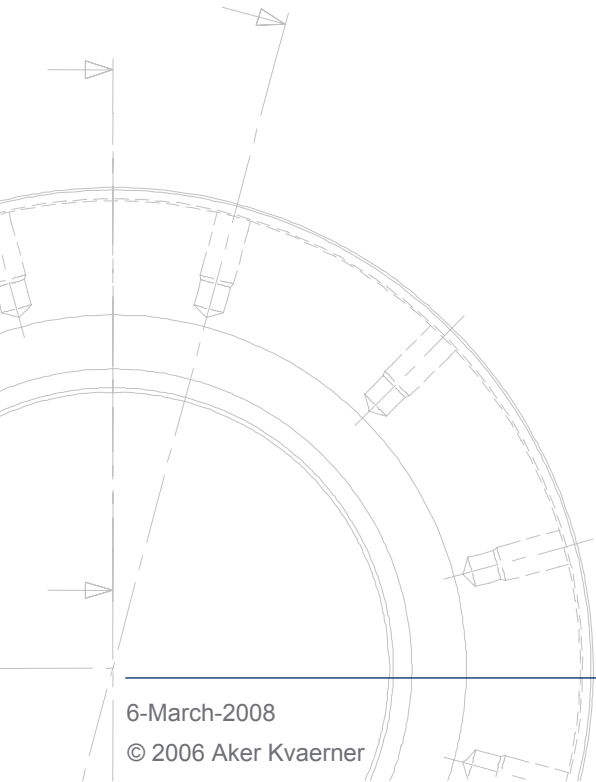
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