PIC - FMCM

Commissioning status

PIC status

TEST	DESCRIPTION	STATUS
CRYO	Interlock validation between CRYO and PIC	DONE
UPS	Interlock validation between UPS and PIC	DONE
AUG	Interlock validation between Aug and PIC	DONE
Access vs Powering	Validation of Access Powering Interlocks to prevent powering when access	DONE
Current Leads	Validation of CL thermo-switch on RB.A45 (RR53)	DONE
Interface to BIS	Validation of interfaces between PIC and BIS	TO BE DONE

PIC to BIS interface

- Validation of interfaces with the BIS (32 CIBUs-16 BICs)
- Validation of PIC matrix for definition of Essential and Auxiliary circuits
- Sequence in AccTesting to automatically provoke faults on individual circuits and check propagation to BIS
- All electrical circuits must be fully commissioned before this test
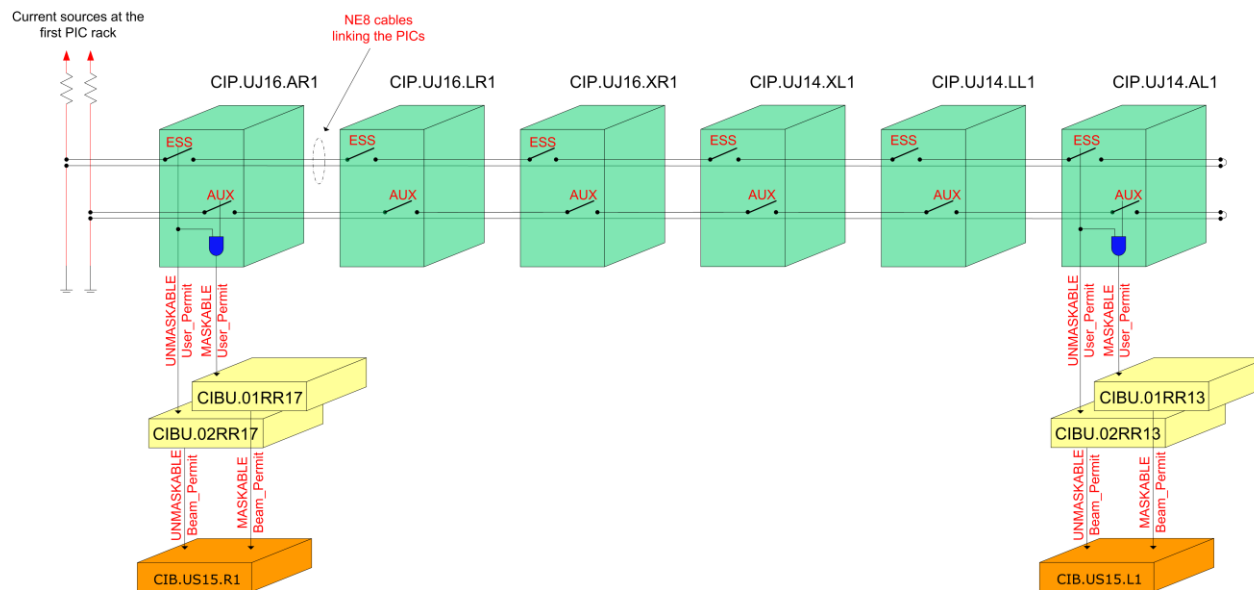
PIC configuration

- Current PIC configuration:
  - RB, RQD, RQF, RQX, RD1-4, RQ4-RQ10 as unmaskable (essential for operation)
  - RCS, RQT%, RSD%, RSF%, RCBXH/V and RCB% (except RCBCHS5.L8B1) as maskable (not essential with safe beam)
  - RCD, RCO, ROD, ROF, RQS, RSS no impact

- We will change to:
  - RB, RQD, RQF, RQX, RD1-4, RQ4-RQ10 as unmaskable (essential for operation)
  - RCS, RQT%, RSD%, RSF%, **RQSX3, ROD, ROF**, RCBXH/V and RCB% **as maskable** (not essential with safe beam)
  - RCD, RCO, RQS.%, RSS no impact

Non conformities

- Circuits still (or newly condemned) for Run2 and hence SUPERLOCKED and REMOVED from the PIC configuration:
  - RCOSX3.L2
  - RCOX3.L2
  - RCSSX3.L2
  - RCOSX3.L1
  - RSS.A34B1 – new, but anyway defined as no impact!

- Circuits which have been repaird during LS1 and which are to be put BACK as AUXILIARY/MASKBABLE:
  - RCBCHS5.L8B1

- Just for completion: Three more circuits have been repaired but are still considered as having no impact, so no change here:
  - RCO.A12B2
  - RCO.A81B2
  - RQS.R3B1

FMCM status

TEST	DESCRIPTION	STATUS
TRIGGER and BIS	Validation of correct triggering and propagation to BIS	**ONGOING**

- **LHC** => Commissioning without beam of all devices (12) is done
- **SPS TLs** => Commissioning without beam will be done on Thursday (12th March). New control system is fully ready…

Trigger and BIS