

EN-CV Progress

EHN1 Extension Project

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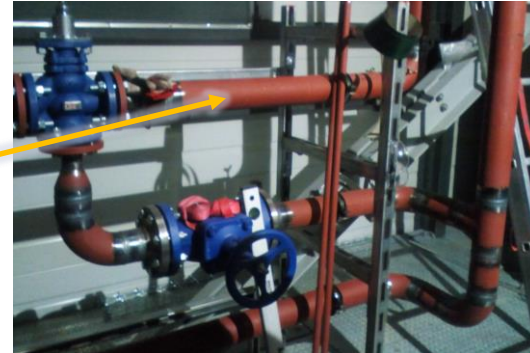


ENGINEERING
DEPARTMENT

Progress

HVAC (Ferrostaal GmbH)

- WL2 (SW pipework)
 - X-rays controls & pressure tests OK
 - Insulation works timeslot TBD (September ?)
- WL1 & WL2 (Tests / Commissioning phase)
 - Loop tests / I-O tests OK
 - **Commissioning report pending !**
- WL3 (Air-conditioning for the barracks)
 - Fan-coils & fan units installed
 - Temporary electrical supply for air-conditioning
- WL1 (Argon extraction system)
 - Extension of the argon ducts in the pits (September ?)
 - Completion of the pulsion duct under beam line structure (September ?)



COOLING (Rampower)

- All WL : pipework works are completed
- Cooling system (Raw water) for CENF racks is operational
- WL1 (Demi water) : all welds are now conforme (no more X-rays!)
 - DW piping pressure test foreseen end of August



Firefighting systems

Tests and reception with HSE/FB done on 14 June 2017

- RIAs network inside EHN1 extension area



- Hydrants network outdoor EHN1 extension area

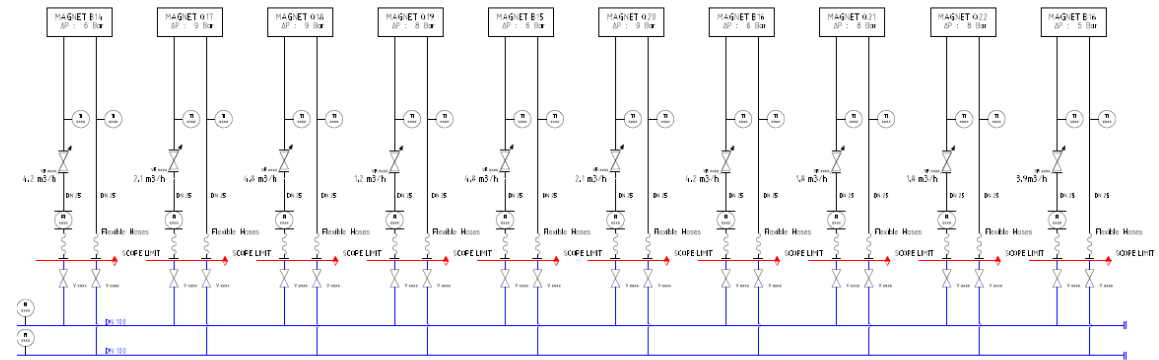


- Conclusion : all firefighting systems are operational. Some minor snags must be treated
- A formal reception report is being prepared : will be included in the installation safety file

Cooling for new magnets

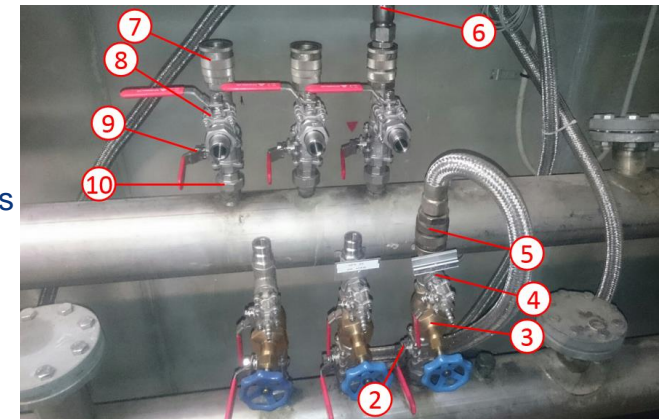
Scope limit and contribution for TE/MSC and EN/CV

- The demineralized water distribution 'clarinette' is built : shut-off valves installed (EN/CV scope)



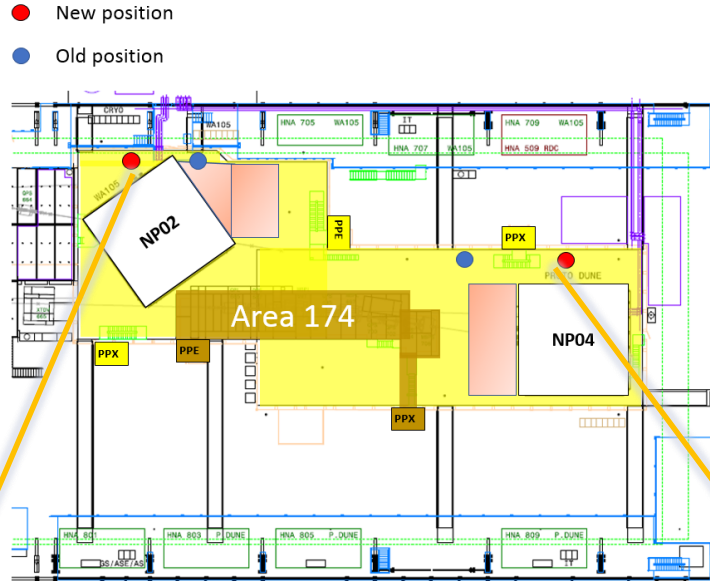
GHN19 Gallery

- TE/MSC asks EN/CV to supply/install the hydraulic manifold for each magnet
 - Water flexible hoses remain in TE/MSC scope
 - Manual balancing valves, fittings and 'Walther' connectors will be in EN/CV scope
- Reference for the material will be provided by TE/MSC
- Calendar for the installation to be agreed, to comply with the magnets tests



Integration of new argon ducts

- Integration of the new argon ducts was done (see EN-CV 3D mock-up)
- Extra-pressure drop should decrease the extraction flowrate in emergency mode : to be discussed with HSE and EP !
- If OK with HSE: works could be performed in September with other tasks related to WL1



- Note: Regarding the extraction flowrate requirement given in the ODH risk assessment, EN-CV had foreseen safety margin for the WL1 system design (15.000 m³/h versus 13.000 m³/h required)

