

Joint STAP meeting: CHARGE - updated with recent topics, questions, challenges - 180226

Common Topics

Following the update on ESS, NSS, SSS incl. the feedback from SAC and instrument STAPs, you are invited to comment on SAD organisation and SSS project execution. Consider specifically the plans presented concerning on-site installation and (safety infrastructure) including radiological zoning and Personal Safety Systems, DMSC plans for user office software, integration, sample tracking etc. Clarification and advice on sample orientation / alignment incl. off-line stations and test beam line is asked for.

Updated seismic and security requirements resulted in a necessary re-engineering of some of the conventional facilities designs at ESS. This means that access to instrument halls D01 and D03 will come later than hoped, while access to the long instrument hall E02 remains more or less as anticipated. Hence this does impact the laboratories and sample environment workshops only slightly, it significantly influences the instrument construction schedule. This requires a **review of the ESS baseline** and compresses the time for hot commissioning in respect to the envisaged start of user programme (SoUP). The high-level focus is to find ways to minimise the impact of any changes to the schedule, looking closely at a number of ways to mitigate the impact, using the many examples of peer projects. This is part of this year's annual review and the STAPs are invited to comment .

Information to be presented from ESS:

- Update on ESS, NSS, SSS incl. feedback from SAC and (instrument) STAP meetings
- Update about on-site installation and infrastructure considering changes in the schedule of the conventional facilities
- Update on safety infrastructure, radiological zoning, PSS

STAP to comment on:

- Discussion on SAD organisation and SSS project execution considering the forthcoming review of the ESS baseline
- Discussion on sample orientation / alignment incl. off-line stations / test beam line

Topics for STAP 'Sample Environment

Following the update on the execution towards an operational sample environment suite and temporary workshops, you are invited to provide feedback on the day 1 priorities based on instrument needs. This shall also include consideration for the instrument specific sample environment systems. For both the procurement or in-kind planning shall be presented. Advice on conventional safety considerations for sample environment systems is asked considering tasks (documentation, testing, FE-simulations, metallurgy)) the associated cost / staffing levels but also the responsibilities in respect to ESH. Comments are invited on (i) the layout / functionalities of the future on-site workshops, (ii) the work with the instrument teams especially on the cave logistics (use cases) and (iii) the software integration. Having discussed with the instrument teams a series of sample environment topical seminars / workshops have been proposed and interested STAP members are invited to participate.

Information to be presented from ESS:

- Tour of Utgard workshop and ongoing activities
- Update on sample environment suite, Day 1 priorities including procurement / in-kind planning
- Update on-site workshops considering layout / functionalities incl. central tech. support
- Completion of the SES suite (beyond construction) including R&D activities (automation, robotics)
- Update on instrument activities: cave logistics incl. SEE use cases
- Update on software integration from SAD perspective (EPICS, SECoP etc)
- Forthcoming topical seminars / workshops on sample environments

STAP to comment on:

- Discussion about Day 1 priorities incl. instrument needs and instrument specific SEE
- Discussion on conventional safety related to sample environment
- Discussion of the SES suite completion plan (beyond construction)

Topics for STAP ‘Users and Samples’

The STAP is invited to comment on the layout / functionalities of the on-site labs incl. the Radioactive Materials Lab but also on the prioritised laboratory equipment list. Related to instruments, we encourage feedback on instrument specific lab infrastructure. Following the update concerning current DEMAX activities and organisation, advice is needed for DEMAX initial operations including its access modes. Feedback is encouraged on (i) the (draft) access policy, (ii) the access strategy during initial operation and commissioning and (iii) the user office software incl user training and sample handling.

Information to be presented from ESS:

- Tour of MV and Biolabs
- Discussion on layout of on-site labs
- Discussion on Radioactive Materials Lab incl. hazard analysis
- Discussion about instrument specific lab infrastructures (sample prep areas)
- Update on DEMAX activities and organisation
- Update on Initial operation planning / (commissioning) access incl. draft access policy and DMSC plans for the user office software

STAP to comment on:

- Discussion on DEMAX initial operation including access modes.
- Discussion on User Office Software including user training and sample handling
- Discussion on prioritised equipment list for general user labs.