EUROPEAN SPALLATION SOURCE

26 Feb 2018

Feedback to previous STAP report 'samples and users' (Oct 2017)

GENERAL

(1) Sample Management: All 15 instruments have now completed their preliminary design phase. Sample logistics has been discussed during TG2 and adjustments have been implemented when necessary.
(2) Transition to Operation: We are indeed focusing on initial operation considering both the operational aspects but also the completion of construction. Both aspects are under revision considering the current review of the ESS baseline.
(3) Sample Alignment: We have made progress in designing both the flanges for top-loading as well as the kinematic mounts for side-loading instruments. This will be presented during the STAP meeting. We are pushing for providing user service using the test beam line but detailed planning relates to the revision of the ESS baseline.

SAFETY

(1) Licensing: With the help of the safety engineer seconded from ILL (Veronique Caillot) we made significant progress on the licensing process, which we are (soon) tracking via JIRA: NSS hazard analysis, zoning incl. zoning change, RML inventory. We are also streamlining the various work procedures. Though sky shine and air activation from the bunker remain critical topics as they are essential for the next licensing application.
(2) OHS: Helena is taking full responsibility for the OHS aspects for the NSS project and liaised well with the central ESH team, which has strengthened their competences including training. Update will be provided during the STAP meeting.

SCUO

(1) software: DMSC has prepared a way forward realizing leverage from a MAX IV collaboration and aiming for a modular system. The 'scheduling module' has been prioritized as a key element for such a modular system. Recruitment is ongoing and an update will be provided during the STAP meeting. Though the DEMAX initial operation program will need to rely on 'paper and pencil'.
(2) access: Though an access policy is still pending progress will be reported: best practice workshop for industrial use, facility-based user survey, cross facility strategic planning, insolvent in MX IV user meeting, joint ILL / ESS user meeting.
(3) scientific coordination: though regular seminars remain rare, the annual science day is a key condensation point. First instrument scientists are expected to relocate this year and will increase the scientific activities.

SULF

(1) temporary labs: the MV lab is increasingly crowded and equipped. The lease is currently under renewal and shall be kept for (at least) another 5 years period.
(2) on-site labs: Clearly also the lab buildings are effected by some schedule slip. We are watching this closely. As several functions are not part of CF scope, the current construction IK work package will be used for fitting a prioritized set of lab spaces.

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(3) CF interactions: The sample environment workshops need extended fitting and we are starting detailed planning liaising with the laboratory consultant.
(4) Lab fit-out: Lab equipment remains very limited and STAP advise is relevant to define the way forward.
(5) Instrument Labs: The NMX sample preparation area will be used to illustrate the progress in this area.

DEMAX
(1) Partnerships: An update will be provided for all pillars of the deuteration platform (bio deuteration, crystallisation, chemical deuteration)
(2) User Programme: We have worked on the details for an (initial) user programme from 2019 onwards and present our plans during the meeting.
(3) Staffing: We have sustained our staffing and refined our plans consistent with the ambition for the user programme.

Feedback to previous STAP report ‘ sample environment ‘ (April 2017)

(a) ESH links: We have integrated an OHS engineer (Helena) within the science directorate. Sample environment topics - high pressure, hot works - serve as test cases for both safety procedures as well as training.

(b) SES for engineering: based on instrument feedback, several topical symposia are planned in the near future to refine our plans. A symposium organized by Aarhus university in May covers the aspect of mechanical processing.

(c) We have revised our requirements on sample environment logistics to minimize activation. The implementation is part of the detailed design phase for all instruments.

(d) staffing: The SAD team has significantly grown in recent months and two further recruitments are currently under way.

(e) early science success: The strategy has recently been endorsed by council and the SAD team will dynamically adjust to the priorities of the instruments. Besides the timelines we have started tracking the priorities on our sample environment reference suite.

(f) Mechanical engineering: support is ensured via the NSS engineering team to the level of 0.5FTE. David currently focuses on the mechanical mounts. Most design work for SES is part of in-kind or collaboration projects.

(g) instrument interaction: having entered the detailed design phase the instrument teams are getting increasingly receptive for SAD-related topics both on the instrument but also in respect to installation commissioning and late operation.

(h) schedule: we are currently revising our schedule in respect to the new ESS baseline in preparation. We clearly need to revise scope, schedule ad budget in respect to fitting our SE workshops.