



# Introduction & Update

Instrument STAP Meetings – April 2020

PRESENTED BY ANDREW JACKSON

2020-04



# Welcome!

- We are now on a regular schedule
  - 2 STAP meetings per year, synchronised with SAC meetings
  - Reporting to SAC meeting
  - Spring:
    - Short video meeting
    - Written reports sent to SAC
  - Autumn:
    - A longer physical meeting
    - Held during 3 days before SAC meeting
    - All instrument STAPs meet at the same time
    - STAP chairs to attend SAC meeting and present summary
    - Written reports follow
  
- Format of this meeting:
  - Focused on status updates and current hot topics



# Purpose & Remit of Instrument STAPs

- Scientific and Technical Advisory Panels
  - one per instrument class
- STAP: instrument advisory body
  - science case and functional requirements
  - all aspects which impact on scientific output of instrument (not just instrument project)
  - technical and project decisions
  - early science
- Advice to both NSS management and instrument teams
  - collaborative & non-adversarial setting
  - NSS management & instrument teams take advice constructively
  - allows NSS management & instrument teams to make good, informed decisions
- Each STAP meeting results in written recommendations
  - followed up in subsequent meeting(s)
  - presented at following SAC meeting
  - SAC report includes highlights of STAP reports – presented to Council



# ESS Update

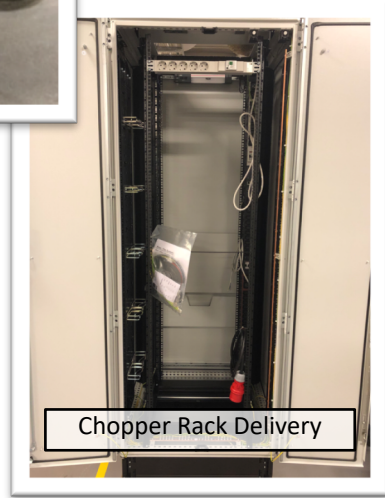
## Organisation

- Re-organisation completed:
  - Staff from Neutron Instruments Division in the Science Directorate have transferred to new Instrument Scientists Group within NSS Project Division in the Technical Directorate.
  - Chopper Group, Experimental Control & Data Curation Group, & Detector Group all moved from Science Directorate to NSS Project Division in the Technical Directorate alongside new Instrument Scientists Group.
  - NSS Project Division has also Technical Projects Group (engineering), and Planning and Coordination Group
- Andrew Jackson replaces Ken Andersen who has moved to SNS
  - Group Leader for Instrument Scientists Group
  - Also represents instrument scientists and instrument operations within the Science Management Team (SMT – the team of division heads within the Science Directorate)
  - At least 20% of instrument scientists time is still allocated to research, outreach and community development to ensure adequate preparation for early science and start of user operations.
- Lead Scientist for DREAM (Mikhail Feygenson) to join ESS staff in mid-2021
- Judith Houston (at ESS since 2018) now Lead Scientist for LoKI

# ESS Update

## NSS Common Projects

- Bunker
  - R6 brackets being installed (supports for inner edge of bunker roof)
  - West wall being manufactured
- Common Shielding
  - Manufacture of shielding underway
  - First deliveries and installations
- Choppers
  - Agreements with instruments
  - First delivery of equipment for building racks
- Beam Monitors
  - Progress on development of V-foil monitors
  - Ongoing discussions with instrument teams



# ESS Update

## Construction and Installation Activities

- Buildings
  - D building structures are going up
  - D03 roof trusses on
  - D01 support wall frame erected
  
- Labs
  - Installation work on labs in E buildings has started. Successfully negotiated out of hours/unsocial hours work regime for supervisory staff to maximise work time of contractors. SAD team are on a rotation of supervision duties to cover the extended working day.
  
- Instruments
  - NMX : cave being installed
  - CSPEC : guide shielding base installed
  - BIFROST : control hutch installed



# ESS Update

## Coronavirus



- We have been on work-from-home since 19<sup>th</sup> March
- Sweden does not have severe lockdown, so some ESS activity on site is continuing e.g. NMX cave installation, Accelerator installation
- We are continuing to perform reviews (CTV, IDR, Tollgates) as most of these were by correspondence/video conference in any case.
- Partner countries do have more severe controls in place – this is the major challenge for the instrument projects.
- Skanska continue to work at ~80% level, so CF timeline is not going to be severely affected yet.
- Weekly updated tracking of impacts due to coronavirus is taking place. Of note so far:
  - Lab installation stopped due to installation team returning to UK
  - Engineering and procurement significantly slowed in France
  - Production of equipment (Monolith vessel, target wheel, instrument vacuum vessels) stopped in Spain
  - Production of beamport inserts will be delayed in Germany

# Charge for this meeting



- Instrument teams
  - Prepare status reports and present them
  - Identify hot topics and raise them
  - Provide feedback on actions
- NSS management
  - Organise the meeting
  - Inform of main developments since last meeting
  - Provide feedback on actions
- STAP
  - Do the chosen technical solutions match with the scientific requirements of the instrument?
  - To what extent are the instrument projects on track for delivering early science?
  - To what extent is the progress of the instrument projects consistent with the planned ESS timeline?
    - Look at whether the instrument teams are making scientific and technical decisions in a timely manner
    - Consider whether there is “scope creep” that might have a negative impact
    - Consider whether the instrument teams have the necessary support from partner institutions and ESS
    - Are there any pending technical decisions that may delay instrument progress?
  - No need to consider effects of coronavirus on procurement and manufacturing – look at whether the instrument teams are ready to go when they can.



Thank you!

Aerial View of D01/D02/D03 February 14<sup>th</sup> 2020  
<https://dam.ess.lu.se>