

System Acceptance Review Meeting for LOKI

Date: 19 September 2025

Location: ESS, Lund, Sweden

Time: 08:45 – 17:00

Meeting Room: Tycho-Brahe; Zoom

AGENDA

Participants:

Presenters:

Andrew Jackson (Acting LOKI Lead Instrument Scientist)

Clara Lopez (LOKI Instrument Integration Engineer)

Hannah Burrall (LOKI Instrument Operations Engineer)

Review Committee

Mikhail Feygenson (Chair)

Robert Connatser (Head of NSS Division)

Helen Boyer (OHS Representative)

Mattias Skafar (Quality Representative)

Giuseppe Aprigliano (NSS Engineering Representative)

Per Roos (RP Representative)

Sofie Ossowski (NSS Subproject Representative)

The charge (in line with ESS-5616193) for the committee is:

1. Validate that all system components, as defined by the Instrument FBS, are present and installed.
This ensures that all project scopes have been delivered.
2. Validate that all system documentation has been delivered and is in CHESS.
3. Validate that all technical documentation has been delivered, stored in CHESS, and is appropriately linked to the FBS structure.
4. Review the integrated cold commissioning report and ensure that it represents a sufficient test of the instrument systems, showing that all requirements that are testable during cold commissioning have been addressed.
5. Confirm that the performed testing has verified performance against the requirements that are testable during the cold commissioning.
6. Review the operating processes of the instrument and Hot Commissioning plan.
7. Review the list of non-conformities and their actual or proposed resolution and determine if they are appropriate.
8. Prepare a review report.

Instrument Partners

Peter Harbott, FZJ

Andreas Poqué, FZJ

Kevin Jones STFC, ISIS

Observers

Thomas Hansson (Radiation Safety Representative)

Andreas Jansson (Facility Commissioning Coordinator)

Lali Tchelidze (Head of Operations Division)

Magnus Täcklind on behalf of Peter Rådahl (Chief Engineer /Technical Office Manager)

Other Interested Parties

Giovanna Fragneto (Science Director)

Andrew Jackson (Head of LSS Division)

Pascale Deen (Head of Spectroscopy Division)

Hanna Wacklin-Knecht (Head of SSD)

Thomas Holm Rod (Head of DMSC Division)

Oliver Kirsten (Technical Subproject Leader for Science)

Iain Sutton (NSS Technical Coordinator)

Kevin Fissum (Detectors Group Leader)

Nikolaos Tsapatsaris (Chopper Group Leader)

Thomas Gahl (MCA Group Leader)

Vincent Hardion (ECDC Group Leader)

Nicklas Holmberg (ICS)

Masatoshi Arai (OMD Technical Coordinator)

08:45 - 09:15	Closed Session for Review Committee / Presentation of charge	(I)
09:15 – 09:20	Welcome / Meeting Rules (Mikhail Feygenson)	(I)
09:20 – 09:35	Scientific Overview of Instrument – High Level Requirements (Andrew Jackson)	(I)
09:35 – 09:45	CIDL and Interfaces (Joakim Meyer)	(I)
09:45 – 09:55	Status of the Documentation (Raveesh Kshema)	(I)
09:55 – 10:15	Coffee Break	
10:15 – 10:30	Overview of NCR / NIT (Andrew Jackson)	(I)
10:30 – 10:40	Drawing Release Status (Clara Lopez)	(I)
Instrument Components Overview		
10:40 – 11:30	Front-to-back Overview of Components (Including remote handling information) (Clara Lopez)	(I)
11:30 – 11:40	Deferred Scope (Andrew Jackson)	(I)
11:40 – 12:00	Integration of Sample Environment (Hannah Burrall)	(I)
12:00 – 13:00	Lunch	
Presentations of Technical Areas, Covering Local SAT of Subsystem and Corresponding Documentations (Focus on issues only)		
13:00 – 13:10	Motion Control and Automatization (Kristina Jurisic)	(I)
13:10 – 13:20	Choppers (Erik Nilsson)	(I)
13:20 – 13:30	Detectors & Beam monitors (Irina Stefanescu)	(I)
13:30 – 13:40	ICS (Johan Christensson)	(I)
13:40 – 13:50	ECDC (Laís Pessine do Carmo)	(I)
13:50 – 14:00	Shielding SAT (Clara Lopez)	(I)
14:00 – 14:10	Vacuum (Laurence Page)	(I)
14:10 – 14:30	Coffee Break	
14:30 – 14:50	Integrated Test Results (Andrew Jackson, Hannah Burrall)	(I)
14:50 – 15:10	Data Processing (Oliver Hammond)	

15:10 – 15:40	Summary of NIT / NCR and proposed resolutions (Andrew Jackson, Clara Lopez, Hannah Burrall)	
15:40 – 15:55	Maintenance (Key systems periodic maintenance, handover of warranties) (Hannah Burrall)	(I)
15:55 – 16:25	Scientific Hot Commissioning Plan (Overview) (Andrew Jackson)	(I)
16:25 – 16:55	Closed Session for the Review Committee / Verification of the Action Items	(D)
16:55 – 17:00	Initial feedback and closing of the meeting (Mikhail Feygenson)	(I)

* LOKI Site Tour to be offered on 18 September 2025

I=Information
D=Decision