



iSRR

Nit tickets and NCRs

PRESENTED BY <NAME NAMESON>

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SAR review comments - Conclusions

From TBL Instrument System Acceptance Review Report, 7.3 Requirements

8. CONCLUSIONS

Based upon the assessment of the information presented, discussion and outcomes during the review, committee judgement is the following:

The system is recommended for acceptance	☐
The system is recommended for acceptance with required actions.	☐
The system is not recommended for acceptance	☒
The system (as applicable) is ready for SRR:	☐
Comments	
The system is not recommended for acceptance in the current state (as of 3.06.2025). After the following six issues are closed, the system can be recommended for acceptance with required actions (listed in Section 7). The following issues must be addressed:	
[1] Control Hutch: Reduce ventilation noise to an acceptable level of 50 dB (new NIT)	Resolved, NIT-94
[2] Beam Monitor (in-bunker): Provide a gas connector (NIT-95)	Resolved
[3] Beam Monitor (in-bunker): Provide electrical isolation (NIT-98)	Resolved
[4] DMSC/ECDC: Beam monitor data shall be correctly displayed on NICOS (new NIT)	Unresolved, NIT-117
[5] ICS: Integrate slow controls for multi-blade detector (NIT-88)	Resolved
[6] ICS/IT: complete installation of Network connectors, CCTV webcam, IP phone, and (new NIT)	Resolved
[7] Provide overview of the warranty status for commercial systems	Resolved

SAR review comments- Required actions

From TBL Instrument System Acceptance Review Report, 7.3 Requirements



ID	Required action	Completion criteria
1	Deferred Scope: Install the beam monitor 2 (ESS.NSS.H01.TBL.A01.B01.B02) inside the cave (deferred scope)	Integrated test completed by Q1/2026
2	Deferred Scope: Install the point-to-point patch panel (ESS.NSS.H01.TBL.A02.X01)	Installation completed by Q4/2025
3	Deferred Scope: Install the sample positioning system (ESS.NSS.H01.TBL.A02.W01)	Integrated test completed by Q1/2026
4	Heavy Shutter: CE-marking sign-off (NIT-83, NCR-1-493)	NCR to be resolved by iSRR date
8	Find a permanent solution for the gas storage (create new NIT)	Solution is approved by ES&H by iSRR date
9	Find a space for activated components near the cave (create new NIT)	Space is approved for usage by RP before BoT
10	DMSC: Develop scipp tools for data reduction of multi-blade detector data (NIT-89)	Manual released in CHESS before BoT date
11	ECDC: For the in-bunker beam monitor provide the way of changing parameters (bin numbers, ToF range) in NICOS (NIT-85)	Updated manual for BM released in CHESS by BoT date
12	DMSC: Develop scipp tools for data reduction of CMOS camera data (NIT-87)	Manual released in CHESS before BoT date
13	Detectors: Provide activation level information for CMOS camera (NIT-54)	SAT report released in CHESS after BoT
14	MCA: Reading of shutter status on MCU 6001 Control Interface (NIT-101)	Updated SAT report released in CHESS by iSRR date
15	MCA: Enable reading of cabinet status on Control Interface (NIT-100)	Updated SAT report released in CHESS by iSRR date
16	MCA: Enable reading of motor temperature on Control Interface (NIT-102)	Updated SAT report released in CHESS by iSRR date
17	MCA: Implement timing synchronisation using position-time-protocol (NIT-103)	Updated SAT report released in CHESS by BoT date
18	MCA: As built models need to be produced after the changes and adaptations during the local and integrated tests	Drawings released in CHESS by iSRR date
19	Documentation: complete the linkage and verify the linkage of released documents to FBS	Updated FBS linkage released by iSRR date
20	CEP: Resolve installation prescriptions reported in ESS-5492404 (create new NIT)	Re-release of ESS-5492404 by iSRR date
21	CUP: Complete piping installation report (ESS-5459912) (create new NIT)	Re-release of ESS- 5459912 by iSRR date
22	Documentation: update V&V report (ESS-5688700) by adding extra column documenting local tests not covered by integrated ones	Re-release of ESS-5688700 by iSRR date
23	Cave: Create NIT to show that SAT is proven only up to 2MW	Re-release of SAT report by iSRR date
24	Cave: Create NIT for fixing crane traverse validation	NIT resolved by by iSRR date
25	Documentation: A procedure for complex configuration exchanges (how to remove the multiblade) should be documented	Updated instrument manual (ESS-0265775) re-released by iSRR date
26	Vacuum: update vacuum system verification (to be integrated with test report of the running system) and BWI installation report	Update and release ESS-5628977 and ESS-5649667 by iSRR date
27	All outstanding NCRs shall be traceable in NIT	Update NIT with NCR by iSRR date

SAR review comments- Required actions

Only the actions required for iSRR/SAR



ID	Required action	Completion criteria
4	Heavy Shutter: CE-marking sign-off (NIT-83, NCR-1-493)	NCR to be resolved by iSRR date
8	Find a permanent solution for the gas storage (create new NIT)	Solution is approved by ES&H by iSRR date
14	MCA: Reading of shutter status on MCU 6001 Control Interface (NIT-101)	Updated SAT report released in CHESS by iSRR date
15	MCA: Enable reading of cabinet status on Control Interface (NIT-100)	Updated SAT report released in CHESS by iSRR date
16	MCA: Enable reading of motor temperature on Control Interface (NIT-102)	Updated SAT report released in CHESS by iSRR date
18	MCA: As built models need to be produced after the changes and adaptations during the local and integrated tests	Drawings released in CHESS by iSRR date
19	Documentation: complete the linkage and verify the linkage of released documents to FBS	Updated FBS linkage released by iSRR date
20	CEP: Resolve installation prescriptions reported in ESS-5492404 (create new NIT)	Re-release of ESS-5492404 by iSRR date
21	CUP: Complete piping installation report (ESS-5459912) (create new NIT)	Re-release of ESS- 5459912 by iSRR date
22	Documentation: update V&V report (ESS-5688700) by adding extra column documenting local tests not covered by integrated ones	Re-release of ESS-5688700 by iSRR date
23	Cave: Create NIT to show that SAT is proven only up to 2MW	Re-release of SAT report by iSRR date
24	Cave: Create NIT for fixing crane traverse validation	NIT resolved by by iSRR date
25	Documentation: A procedure for complex configuration exchanges (how to remove the multiblade) should be documented	Updated instrument manual (ESS-0265775) re-released by iSRR date
26	Vacuum: update vacuum system verification (to be integrated with test report of the running system) and BWI installation report	Update and release ESS-5628977 and ESS-5649667 by iSRR date
27	All outstanding NCRs shall be traceable in NIT	Update NIT with NCR by iSRR date

SAR review comments- Required actions



Resolved (green rows) or not resolved (orange rows)?

ID	Required action	Completion criteria
4	Heavy Shutter: CE-marking sign-off (NIT-83, NCR-1-493)	NCR to be resolved by iSRR date
8	Find a permanent solution for the gas storage (NIT-149) (changed to Gas supply system for Beam monitors)	Solution is approved by ES&H by iSRR date
14	MCA: Reading of shutter status on MCU 6001 Control Interface (NIT-101)	Updated SAT report released in CHESS by iSRR date
15	MCA: Enable reading of cabinet status on Control Interface (NIT-100)	Updated SAT report released in CHESS by iSRR date
16	MCA: Enable reading of motor temperature on Control Interface (NIT-102)	Updated SAT report released in CHESS by iSRR date
18	MCA: As built models need to be produced after the changes and adaptations during the local and integrated tests (NIT-99)	Drawings released in CHESS by iSRR date
19	Documentation: complete the linkage and verify the linkage of released documents to FBS	Updated FBS linkage released by iSRR date
20	CEP: Resolve installation prescriptions reported in ESS-5492404 (create new NIT)	Re-release of ESS-5492404 by iSRR date
21	CUP: Complete piping installation report (ESS-5459912) (NIT-152)	Re-release of ESS- 5459912 by iSRR date
22	Documentation: update V&V report (ESS-5688700) by adding extra column documenting local tests not covered by integrated ones (NIT-302)	Re-release of ESS-5688700 by iSRR date
23	Cave: Create NIT to show that SAT is proven only up to 2MW (NIT-109)	Re-release of SAT report by iSRR date
24	Cave: Create NIT for fixing crane traverse validation (NIT-109)	NIT resolved by by iSRR date
25	Documentation: A procedure for complex configuration exchanges (how to remove the multiblade) should be documented	Updated instrument manual (ESS-0265775) re-released by iSRR date
26	Vacuum: update vacuum system verification (to be integrated with test report of the running system) and BWI installation report	Update and release ESS-5628977 and ESS-5649667 by iSRR date
27	All outstanding NCRs shall be traceable in NIT	Update NIT with NCR by iSRR date

1 NCR

NCR	Gap between TBL cave and Bunker wall is larger than specified NCR track (NIT-391 added by instrument team)	Update radiation hazard analysis before BoT
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NIT 152

TBL - CUP Complete piping installation report



- Assigned to CUP (Stefan Pacoste)
- Unclear if this is reliant on fire suppression completion or if it's the other way around as fire suppression is reliant on pressurised air.
- Unresolved



All open TBL NITs

Tracked by instrument team

	Needed for		Needed for
☒ NIT-152 TBL - CUP Complete piping installation report	SRR	☒ NIT-114 TBL - Storage for Activated components	TG6/ ORR
☒ NIT-349 TBL - Chopper Control Interface	TG6/ ORR	☒ NIT-87 TBL - ToF tool missing for CMOS	Hot commission
☒ NIT-92 TBL - Data curation for TimePix3 detector	TG6/ ORR	☒ NIT-108 TBL - VISA platform is not ready for data analysis	TG6/ ORR
☒ NIT-153 TBL - Hutch for operation	SRR5	☒ NIT-112 TBL - Vibration of TBL Hutch	TG6/ ORR
☒ NIT-117 TBL - I-BM wrong readout/display on NICOS	TG5/SAR	☒ NIT-89 TBL - scipp tool for TBL multi-blade detector	TG6/ ORR
☒ NIT-150 TBL - In-cave slit	TG6/ ORR	☒ NIT-91 TBL - scipp tool for TimePix3	BoT
☒ NIT-118 TBL - Integrated Test of in-cave BM	TG6/ ORR	☒ NIT-405 TBL Cave: Q-gate	SRR5
☒ NIT-113 TBL - Motorized handwheel to Heavy door	TG6/ ORR	☒ NIT-123 TBL Fire suppression test in-cave	SRR
☒ NIT-85 TBL - Numbers of Bins and ToF range on NICOS or Bea...	TG6/ ORR	☒ NIT-103 TBL MCA: Implementation of timing synchronisation wit...	TG6/ ORR
☒ NIT-115 TBL - Point-to-point patch panel	deferral	☒ NIT-396 TBL- Fire suppression system under raised floor	SRR5
☒ NIT-147 TBL - Reduce possible activation on electrical raceway	TG6/ ORR	☒ NIT-407 TBL/Bunker: complementary shielding	February
☒ NIT-116 TBL - Sample Exposure System	TG6/ ORR	☒ NIT-54 TBL: CMOS activation check	TG6/ ORR

NIT 117



TBL - I-BM wrong readout/display on NICOS

- Assigned to ECDC Group (Vincent Hardion).
- This electronic is a thirdparty electronic which cannot be repaired at ESS.
ECDC are in contact with the vendor
- Unresolved

NIT 123



TBL - Fire suppression test in-cave

- Assigned to FM (Irina Pavelic)
- Might be blocked by NIT-152 (CUP Complete piping installation report)
- Tests of pressurized system complete
- Integration with fire alarm unresolved (planned 15/10)
- Report unresolved



End