



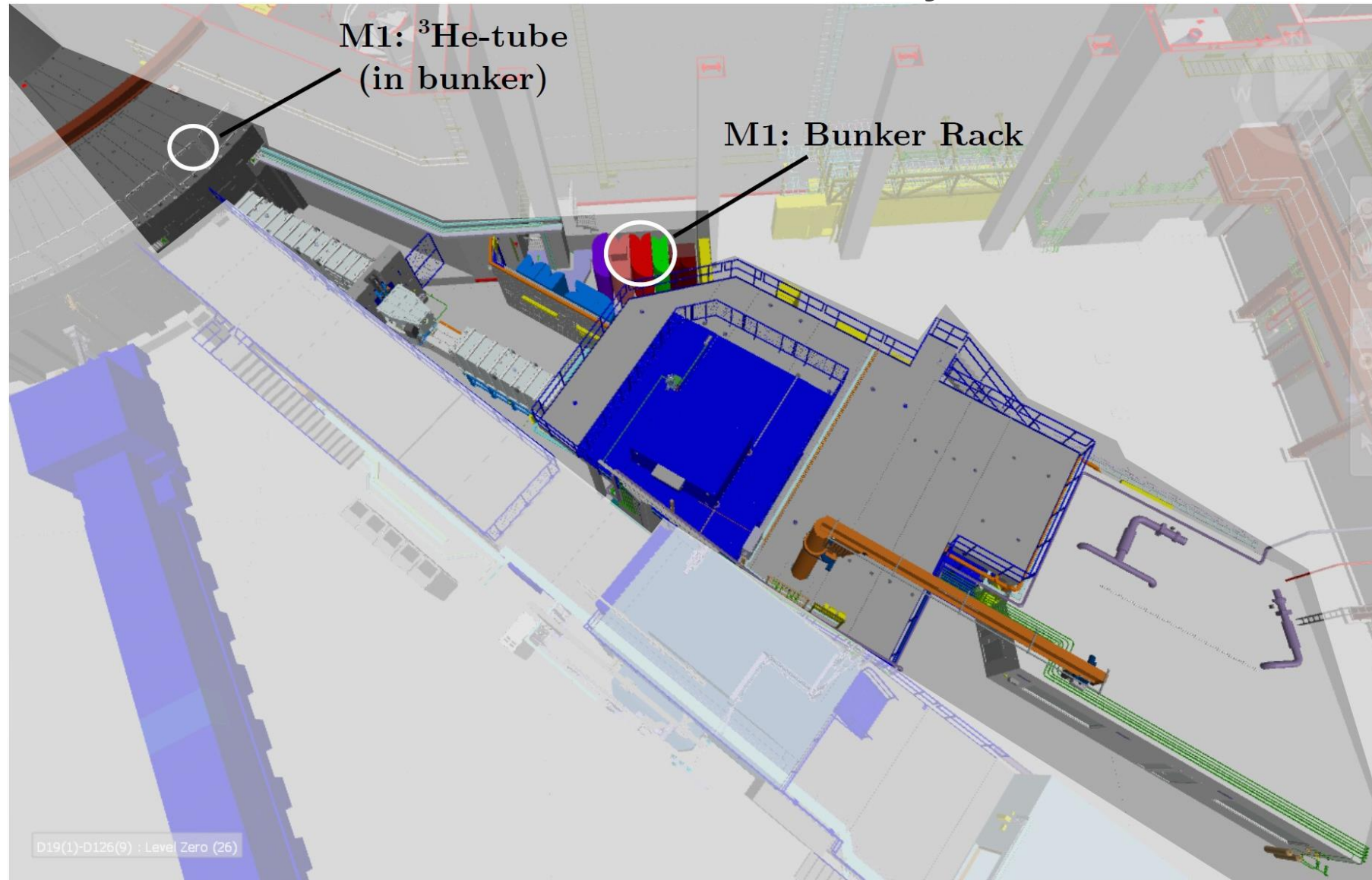
ESTIA Beam Validation System

ESS.NSS.H01.ESTIA.A01.B01.B01.B01

ALI ALTINGUN ON BEHALF OF THE CBMP

2026-06-17

ESTIA Beam Monitor System



Status Report



Beam Monitor System - Vanadium foil-based Neutron Flux Monitor

System name	FBS	EPL	FAT	LOCAL SAT	INTEGRATED SAT	Compliance
ESTIA BEAM MONITOR HEAD	ESTIA.A01.B01.B01.B01	ESS-6006080 (head)	ESS-5988079	ESS-5988079	ESS-5764649	HazID (ESS-6049641 - ESS-4013964)
ESTIA BM M1 DAQ System	ESTIA.A01.B01.B01.T01	ESS-5350609 (preamp)		ESS-5988077		CBMP DEXTRAY Charge Amplifier Compliance (ESS-5533502)

System scope:

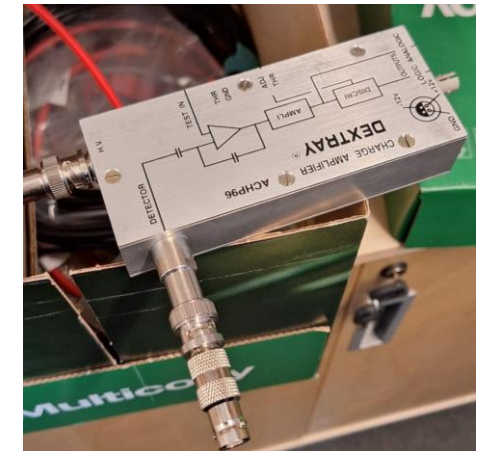
- Real-time neutron beam intensity monitoring for ESS pulse shape and chopper performance

Status:

- Tested with neutrons
- Local SAT complete
- Integrated SAT complete



BM head



BM DAQ Unit

Cold commissioning



Open/Resolved Issues after Local SAT (ESS-5988079)

■ open
■ in progress
■ resolved

MINOR = Testing & operation NOT affected
MAJOR = Testing & operation IS affected

Item	# Ticket	Action	System Affected	Initial Status (Local SAT)	Current Status	Severity	Responsible Group
1	DGRO-777	Beam Monitor data sampler as a debugging tool	M1	Incomplete	■ Resolved	MINOR	DetG
2	DGRO-787	New functionality NI14125 - Resolved	M1	Incomplete	■ Resolved	MINOR	DetG

Cold commissioning



Open/Resolved Issues after Integrated SAT (ESS-5764649)

■ open
■ in progress
■ resolved

MINOR = Testing & operation NOT affected
MAJOR = Testing & operation IS affected

Item	# NIT	Action	System Affected	Initial Status (Local SAT)	Current Status	Severity	Responsible Group
1	NIT-815	Integration of Beam monitor High Voltage power supply into EPICS/NICOS	M1	FAIL	■ In progress	MINOR	ECDC - ICS
2	NIT-816	Integrated counts from BM to be used as counting variable	M1	FAIL	■ Resolved	MINOR	ECDC

- Integration of HV power supplies must be resolved before TG6 / ORR – In progress

Hot commissioning



Beam Validation System

The beam monitor system (M1 – Neutron Flux Monitor) is ready for hot-commissioning

CBMP & DetG planned activities:

- Oversee open and in-progress activities to fully complete the system according to requirements

No displaced working hours or on-call support currently anticipated

- but can be provided if the need arises