

### Test Beam Line (TBL)

# **Configuration Management Status**

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# Agenda



- 1 Introduction
- 2 ESS Baseline Status for TBL
- 3 TBL iSRR Scope

2025-10-09 PRESENTATION TITLE/FOOTER



# 1 Introduction

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## Configuration Management

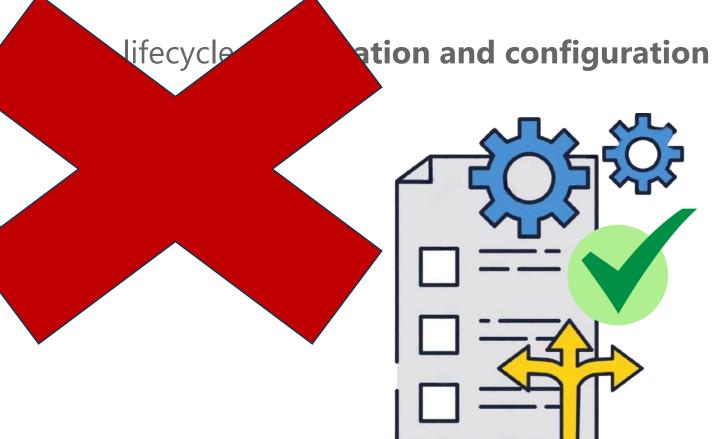
#### In a Nutshell



### 1. Purpose

To ensure that, through status are:

- known at all times
- ✓ agreed upon by r
- complete
- correct
- consistent

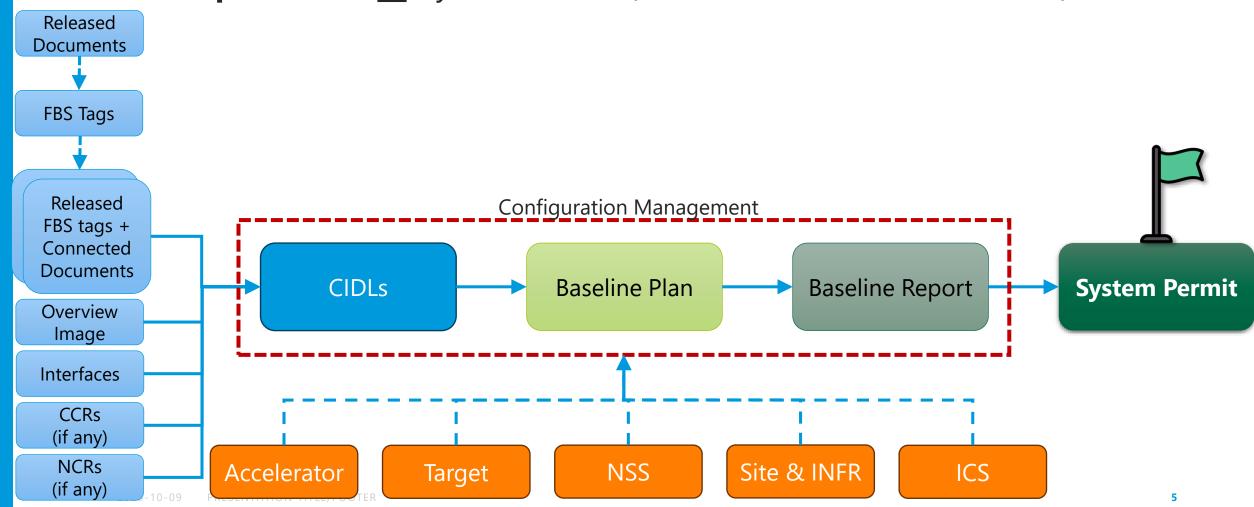


### Introduction



Configuration Management In a Nutshell

**Pre-requisite for:** System Permit (then later Beam Authorization)



### Introduction



Configuration Management In a Nutshell

**Pre-requisite for:** System Permit (then later Beam Authorization) Released **Documents** FBS Tags **Designed Installed & Tested Operate** Released Configuration Management FBS tags + Connected **Documents CIDLs Baseline Plan** Baseline Report **System Permit** Overview **Image** Interfaces **CCRs** (if any) **NCRs** Accelerator NSS Site & INFR ICS Target (if any)



# 2 ESS Baseline Status for TBL

Presentables title/footer

### ESS Baseline Status for TBL

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### Facility Baseline Plan

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Baseline Scope	NSS Baselines											
Facility Baseline	TBL	Shielding & Safety Systems	BIFROST	LOKI	ODIN	NSS RBOT	DREAM	NMX	ESTIA	ACC + TS NF + NSS (ESS RBOT)	ACC + TS + NSS (RFS)	Routine Operation
As-Designed*	4AN-1/2	4AN-2/2	4AN-3/2	4AN-4/2	4AN-5/2	4AN/2	4AN-6/2	4AN-7/2	4AN-8/2			
As-Verified**										4A/2		
As-Operated***											<b>4</b> A	5 <b>A</b>

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### ESS Baseline Status for TBL

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#### **Baseline Conditions**

#### Not in a released and correct state:

 ESS CIDL – Work ongoing; will be done before global SAR5

#### Not in the correct state:

- **TBL PSS CIDL (OS-0000146)** As-Verified state will be baselined after the global integrated tests are performed.
- **NBEX CIDL** (OS-0000081) As-Verified state is planned before 16<sup>th</sup> October, but might slip further.
- NSS CIDL (OS-0000061) Not currently baselined.
  A CIDL in Revision 1 exists, but it will be baselined at 4AN/2.
- NSS Shielding and Safety System
   (OS-0000122) Not currently baselined. A CIDL in
   Revision 1 exists, but it will be baselined in
   November at 4AN-2/2.

BASELINE	NSS									
AS-DESIGNED										
	4AN-1/2	4AN-2/2	4AN-3/2	4AN-4/2	4AN-5/2	4AN/2	4AN-6/2	4AN-7/2	4AN-8/2	
S-VERIFIED	97%	0%	0%	0%	0%	0%	0%	0%	0%	
IO-VEINI IEB	TBL	SHIELDING & SAFETY	BIFROST	LoKI	ODIN	NSS RBOT	DREAM	NMX	ESTIA	
S-OPERATED										

Baseline	Description
4AN-1/2	TBL (As-Designed + As-Verified)

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### ESS Baseline Status for TBL

### Configuration Management Deliverables

#### **ESS-0482562 ESS Facility Configuration Baseline Plan** Rev.14 *Released*

Defines scope, relevant Cls, and corresponding configuration

#### ESS-5693980 NSS TBL Baseline Release Report Rev.1 Review (as of 9th October)

- baseline scope
- any changes, and
- corresponding quality assurance records;
- comments and observations as pre/post-start items;

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### Status of NCRs / CCRs for TBL



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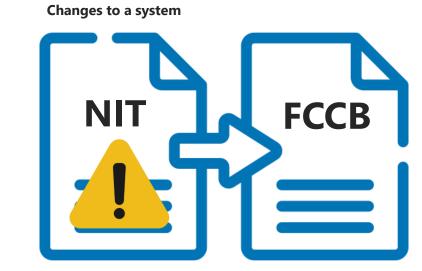
### NCRs / CCRs with unclear status or pending closure that may impact TBL

- **10493** Absence of CE marking, or related documentation (Heavy Shutter System)
- The following NITs have been raised that should be completed before iSRR, but are not yet resolved:
  - NIT-123, TBL Fire suppression test in-cave (*In Progress*)
  - NIT-152, TBL CUP Complete Piping Installation Report (*To Do*)



### A Configuration Change Request (CCR) must:

- be raised prior to implementing any configuration change
- be registered in the Facility Change Log
- be communicated to and analysed by the relevant parties
- be incorporated into all affected deliverables
- be formally closed upon successful implementation



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### Reflection on Documentation



- Stakeholder engagement and collaboration to support the completion of our documentation continue to strengthen over time.
- The relevant document types appear to be largely covered in the current documentation:

### **Scope and Requirements**

- Requirements, Interface documentation are in place

### Specification and Design

- System design description, P&ID, Mechanical design attached but LoM is in A, electrical schematics, etc. are in place

### **✓** Verification and Validation

- V&V Plans and reports are in place with exceptions as follows:
- ESS-5690182 Integrated Test Report for the TBL TimePix3 Detector System (Released in Rev 1 but Rev 2 is needed)

### **✓ Operation and Maintenance**

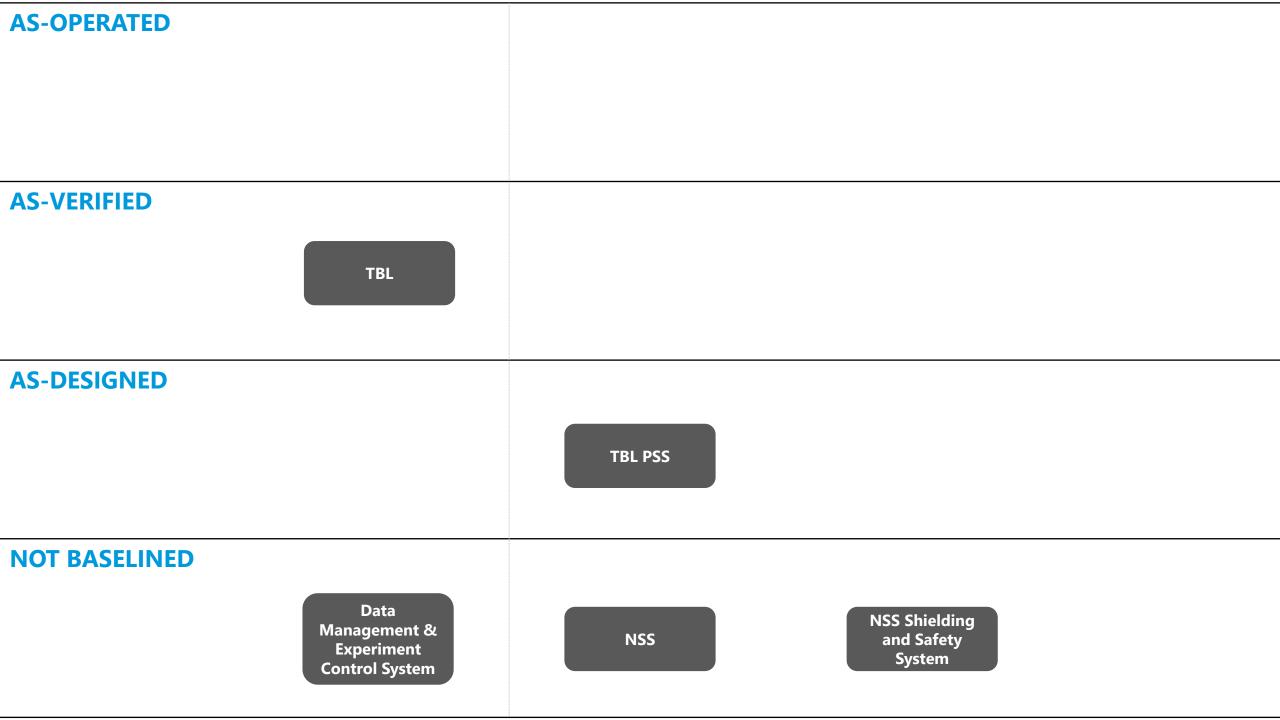
- Operation and maintenance manuals are in place

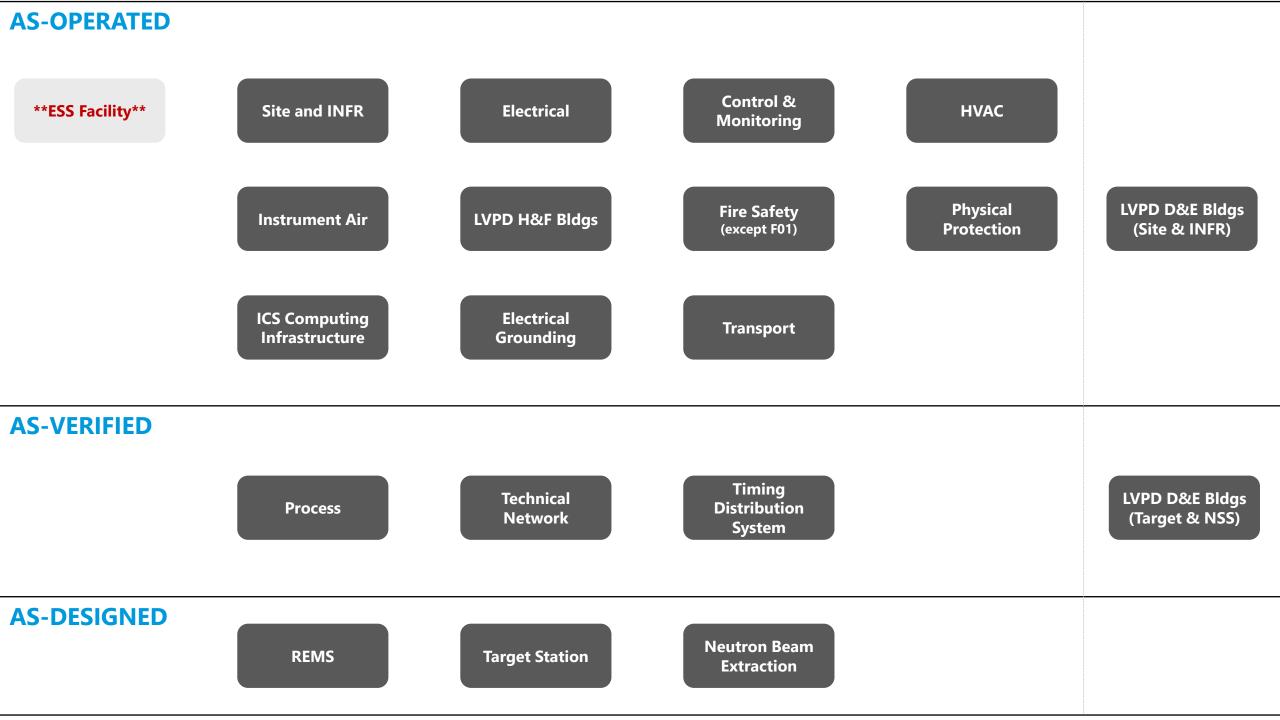
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# 3 TBL iSRR Scope

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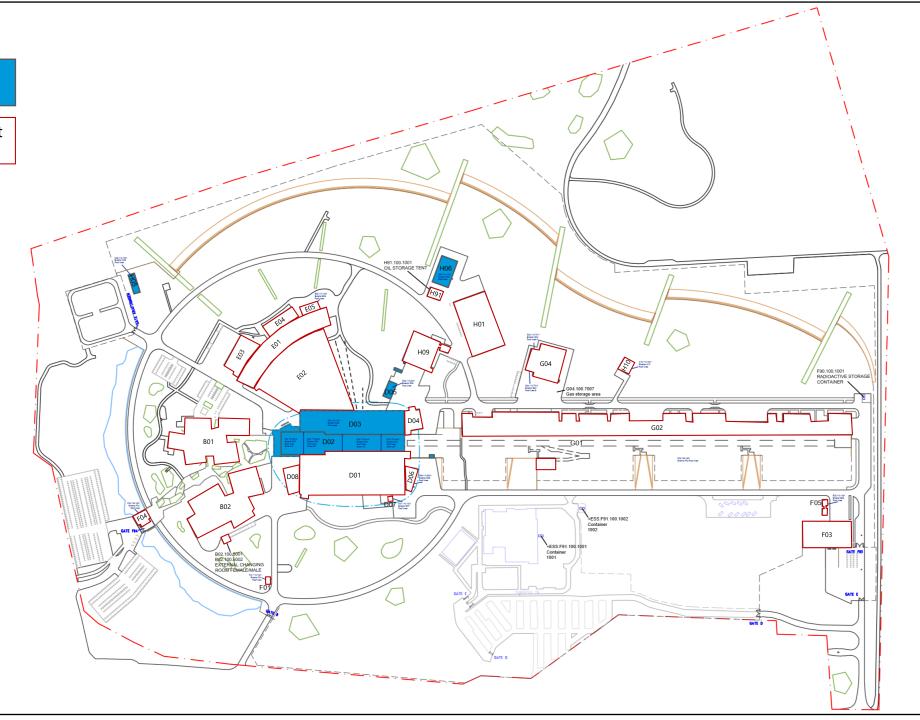




#### **AS-BUILT**

As-Built and Relevant to TBL

As-Built but not Relevant to TBL





# Finish presentation