

外部委託業者の募集

References: IO/26/OT/10035546/GRD

"In-Vessel Coils, Blanket and Divertor (ICBD) Systems Installation"

(容器内コイル、ブランケットとダイバータ (ICBD) システムの据付け)

IO 締め切り 2026 年 9 月 16日(水)

○はじめに

本事前情報通知 (PIN) は、作業契約の入札授与および実行につながる公開入札調達プロセスの最初のステップです。

○背景

ITER は平和利用の核融合発電の科学的小および技術的な実現可能性の実証を目的とした、国際共同研究開発プロジェクトです。ITER 機構の 7 つのメンバーは、;欧州連合 (EURATOM が代表)、日本、中華人民共和国、インド、大韓民国、ロシア連邦、および米国です。

ITER の敷地はフランス南東部のブーシュデュローヌ地区にあり、ITER 本社 (HQ) もあるフランス CEA サン・ポール・レ・デュランス に近いところに位置しています。詳細については、ITER のウェブサイト <http://www.iter.org> を参照して下さい。

○作業範囲

本作業範囲 (Scope of Works) は、ITER 真空容器内部およびその周辺エリアにおける機器・機器の据付作業を対象としています。主な据付対象システムおよび機器は以下のとおりです。

- 真空容器内コイルシステム関連機器：VSコイル、ELMコイル、フィードスルー、絶縁継手
フィーダー類、その他関連機器
<https://www.iter.org/machine/magnets>
- ブランケットシステム関連機器：ブランケットマニホールド、コネクタ、シールドブロック、仮設第一壁パネル
<https://www.iter.org/machine/blanket>
- ダイバータシステム関連機器：ダイバータカセット、ダイバータレール
<https://www.iter.org/machine/divertor>

また、本契約の作業範囲には以下も含まれます。

据付用治工具、設備および施工方法の開発

ITER機構 (IO) が専用に製作したツールを用いた組立プロセスの認定 (該当する場合)

詳細については、附属書I (Annex I) をご参照ください。

○調達プロセスと目的

目的は、競争入札プロセスを通じて供給契約を落札することです。

この入札のために選択された調達手続きは公開入札手続きと呼ばれます。

オープン入札手順は、次の 4 つの主要なステップで構成されています。

➤ ステップ 1-事前情報通知 (PIN)

事前情報通知は公開入札プロセスの第一段階です。IO は、関心のある候補企業に対し、以下の概略日程に示された日までに担当調達担当官に添付の関心表明フォームで以下の情報を提出し、競争プロセスへの関心を示すよう正式に要請します。

特に注意:

関心のある候補企業は、IO Ariba の電子調達ツール「IPROC」に登録してください（まだ登録していない場合）。手順については、

<https://www.iter.org/fr/proc/overview>

を参照してください。

Ariba (IPROC) に登録する際には、お取引先様に最低 1 名の担当者の登録をお願いします。この連絡担当者は、提案依頼書の発行通知を受け取り、必要と思われる場合は入札書類を同僚に転送することができます。

➤ ステップ 2-入札への招待・提案依頼書 (RFP)

PIN の発行から 10 作業日経過後、提案依頼書 (RFP) を「IPROC」に掲載します。この段階では、担当の調達担当者に関心を示し、かつ IPROC に登録している関心のある候補企業は、RFP が公表された旨の通知を受けることができます。その後、RFP に詳述されている入札説明書に従って提案書を作成し、提出します。

このツールに登録されている企業のみが入札に招待されます。

➤ ステップ 3-入札評価プロセス

入札者の提案は、IO の公平な評価委員会によって評価されます。入札者は、技術的範囲に沿って、かつ、RFP に記載された特定の基準に従って作業を実施するために、技術的遵守を証明する詳細を提供しなければなりません。

➤ ステップ 4-契約授与

フレームワークサービス契約は、RFP に記載された評価基準および評価手法に基づき、技術提案 60%、価格提案 40%の配点による「最良のコストパフォーマンス」に基づいて授与されます。

○概略日程

概略日程は以下の通りです：

マイルストーン	暫定日程
事前指示書（PIN）の発行	2026 年 9 月 3 日
関心表明フォームの提出	2026 年 9 月 16 日
iPROC での提案依頼書の発行	2026 年 9 月 28 日
サイト訪問	未定
入札提出	2026 年 11 月 9 日
契約授与及び調印	2026 年 12 月

*現場見学が11月に予定されています。

○必要なスキルと経験

入札者は、附属書Iに詳述された作業範囲に関連する技術的および産業の実績を有することを示さなければなりません。また、過去3会計年度において、以下に示す活動に関連する年間平均売上高が1,500万ユーロ以上であることが求められます。

特に、本案件では以下の分野における実績が必須要件となります。

高精度を要求される複雑機器の組立・据付に関するエンジニアリング（CADを含む） およびリバースエンジニアリング

原子力施設の建設における組立作業

溶接、ハンドリングおよび吊上げ作業、位置決め、電気接続、非破壊検査（NDT）、計測（メトロロジー）など、高度な公差管理が求められる複雑な環境での作業

ステンレス鋼を含む各種材料・寸法のプレートやシム等の部品に対する、リバースエンジニアリングによる測定結果を活用したカスタム機械加工

遠隔操作機器および電動工具・装置の設計、組立および運用

作業空間が制限された環境下において、他の請負業者と並行して作業を実施しながら、厳格な清浄度要件、超高真空要件および寸法精度要件を満たした実績

ITERプロジェクトの公式言語は英語であり、すべてのコミュニケーション（口頭および書面）は英語で行われなければなりません。

○契約期間と実行

ITER機構は2026年末に供給契約を授与する予定です。予想される契約期間は、契約調印から6.5年とします。

○候補

参加は、個人またはグループ/コンソーシアムに参加するすべての法人に開放されます。法人とは、法的権利及び義務を有し、ITER 加盟国内に設立された個人、企業又は機構をいいます。ITER 加盟国は欧州連合(EURATOM メンバー)、日本、中華人民共和国、インド共和国、大韓民国、ロシア連邦、アメリカ合衆国です。

法人は、単独で、またはコンソーシアムパートナーとして、同じ契約の複数の申請または入札に参加することはできません。共同事業体は、恒久的な、法的に確立されたグループ又は特定の入札手続のために非公式に構成されたグループとすることができます。

コンソーシアムのすべての構成員(すなわち、リーダーと他のすべてのメンバー)は、ITER 機構に対して連帯して責任を負います。

コンソーシアムとして許可されるために、その点で含まれる法人はコンソーシアムの各メンバーをまとめる権限をもつリーダーをもたなければなりません。このリーダーはコンソーシアムの各目メンバーのために責任を負わなければなりません。

指名されたコンソーシアムのリーダーは、入札段階で、コンソーシアムのメンバーの構成を説明する予定です。その後、候補者の構成は、いかなる変更も ITER 機構に通知することなく変更してはなりません。かかる認可の証拠は、すべてのコンソーシアムメンバーの法的に授権された署名者が署名した委任状の形式で、しかるべき時期に IO に提出しなければなりません。

どのコンソーシアムメンバーも IPROC に登録する必要があります。

【※ 詳しくは添付の英語版技術仕様書「**In-Vessel Coils, Blanket and Divertor (ICBD) Systems Installation**」をご参照ください。】

ITER 公式ウェブ <http://www.iter.org/org/team/adm/proc/overview> からアクセスが可能です。

「核融合エネルギー研究開発部門」の HP : <http://www.fusion.qst.go.jp/ITER/index.html>
では ITER 機構からの各募集 (IO 職員募集、IO 外部委託、IO エキスパート募集) を逐次更新しています。ぜひご確認ください。

イーター国際核融合エネルギー機構からの外部委託 に関心ある企業及び研究機関の募集について

＜ITER 機構から参加極へのレター＞

以下に、外部委託の概要と要求事項が示されています。参加極には、提案された業務に要求される能力を有し、入札すべきと考える企業及び研究機関の連絡先の情報を ITER 機構へ伝えることが求められています。このため、本研究・業務に関心を持たれる企業及び研究機関におかれましては、応募書類の提出要領にしたがって連絡先情報をご提出下さい。

PRIOR INFORMATION NOTICE (PIN)

IO/26/OT/10035546/GRD

In-Vessel Coils, Blanket and Divertor (ICBD) Systems Installation

Abstract

The purpose of this summary is to provide prior notification of the ITER Organization's intention to launch a competitive Open Tender process in the coming weeks. This summary provides some basic information about the ITER Organization, the technical scope for this tender, and details of the Tender process for Works Contract for the In-Vessel Coils, Blanket and Divertor (ICBD) Systems Installation.

Prior Information Notice annexes:

- Annex I: Indicative Technical Scope
- Annex II: Expression of Interest

1 Introduction

A Prior Information Notice (PIN) is the first stage of an Open Tender (OT) Procurement Process leading to the award and execution of a Works Contract.

The purpose of this document is to provide a basic summary of the technical content in terms of the scope of work, and the tendering process.

2 Background

The ITER project is an international research and development project jointly funded by its seven Members being, the European Union (represented by EURATOM), Japan, the People's Republic of China, India, the Republic of Korea, the Russian Federation and the USA. ITER is being constructed in Europe at St. Paul–Lez-Durance in southern France, which is also the location of the headquarters (HQ) of the ITER Organization (IO).

For a complete description of the ITER Project, covering both organizational and technical aspects of the Project, visit www.iter.org.

3 Scope of Works

The scope of Works covers the installation of components within the ITER Vacuum Vessel and in adjacent areas. The principal systems and components to be installed include:

- In-Vessel Coils system components: VS Coils, ELM Coils, Feedthroughs, Insulating Breaks, Feeders etc
See component overview at <https://www.iter.org/machine/magnets>
- Blanket system components: Blanket manifolds, Connectors, Shield Blocks, Temporary First-Wall Panels
See component overview at <https://www.iter.org/machine/blanket>
- Divertor system components: Divertor Cassettes, Divertor Rails
See component overview at <https://www.iter.org/machine/divertor>

The scope also includes the development of installation means and methods, and also assembly process qualification using IO purpose-built tools, as applicable.

Please refer to Annex I for more details.

4 Procurement Process & Objective

The objective is to award a Works Contract through a competitive bidding process. The IO anticipates using an **Open Tender** as the procurement procedure for this tender. The Open Tender procedure comprises the following four main stages:

➤ Stage 1 – Prior Information Notice (PIN)

The PIN is the first stage of the Open Tender process.

Interested tenderers are kindly requested to complete and return the Expression of Interest (Annex II) by e-mail no later than the date indicated in the procurement timetable below.

Special attention:

Interested companies are kindly requested to register in the IO Ariba e-procurement tool called “IPROC”. You can find all links to proceed along with instruction at the following link: <https://www.iter.org/fr/proc/overview>.

When registering in Ariba (IPROC), companies are kindly requested to nominate at least one contact person. This contact person will be receiving the notification of publication of the Request for Proposal and will then be able to forward the Tender documents to colleagues if deemed necessary. **Therefore, the person identified in the Expression of Interest must be registered in IPROC.**

➤ Stage 2 – Invitation to Tender – Request for Proposal (RFP)

The Request for Proposals (RFP) will be published on our digital tool “IPROC” no earlier than 10 working days after the publication of the PIN. This stage allows interested bidders who have indicated their interest to the Procurement Officer in charge AND who have registered in IPROC to receive the notification that the RFP is published. They will then prepare and submit their proposals in accordance with the Tender instructions detailed in the RFP.

Only companies registered in the IPROC tool will be invited to the Tender.

➤ Stage 3 – Tender Evaluation Process

This tender process may follow a 2-step approach:

- Step 1: a pre-qualification process, based on a pass / fail assessment. Only Tenderers passing successfully all the pre-qualification criteria will be assessed in step 2. The pre-qualification criteria will be defined in the RFP on the basis of section 7 below.
- Step 2: a technical and financial evaluation in accordance with the evaluation criteria and methodology set out in the RFP.

Tenders will be evaluated by an impartial evaluation committee of the IO.

➤ Stage 4 – Contract Award

A Works Contract will be awarded based on the basis of the evaluation criteria and methodology described in the RFP.

Procurement Timetable

The tentative timetable is as follows:

Milestone	Date
Publication of the Prior Information Notice (PIN)	03 September 2026
Submission of completed Expression of Interest	16 September 2026
Request for Proposal launched on IPROC	28 September 2026
Site Visit	To be confirmed
Tender Submission	09 November 2026
Contract award and signature	December 2026

5 Quality Assurance Requirements

Prior to commencement of any work under this Contract, a “Quality Plan” shall be produced by the Contractor and submitted to the IO for approval, describing how they will implement the ITER Procurement Quality Requirements.

6 Contract Duration and Execution

The ITER Organization intends to award the Works Contract by the end of 2026. The estimated duration is 6.5 years.

7 Experience

The Tenderers shall demonstrate their technical and industrial experience related to the scope of work as detailed in Annex I and shall have an average annual turnover of at least 200,000,000 Euros relating to the activities described below for the last three financial years.

In particular, the scope requires mandatory experience in:

- Engineering (including CAD) and reverse engineering for assembly & installation of complex components to high precision,
- Construction of nuclear facilities – assembly,
- Welding, handling and lifting, positioning, electrical connections, non-destructive tests, metrology, in complex environments to stringent tolerances,
- Custom machining, including machining based on reverse-engineered measurements, of components such as plates and shims in various dimensions and materials, including stainless steel,
- Design, assembly and operation of remote handling equipment/motorized tooling,
- Proven experience in executing works concurrently with other contractors in restricted working areas and under stringent cleanliness, ultra-high vacuum and dimensional-accuracy requirements.

The working language of ITER is English, and a fluent professional level is required (spoken and written).

The Tenderer shall undertake his activities in accordance with good industry practice relevant to the technical nature of the Works and to the location of the ITER Site.

8 Candidature

Participation is open to all legal entities participating either individually or in a grouping/consortium. A legal entity is an individual, company, or organization that has legal rights and obligations and is established within an ITER Member State, being: the European Union (represented by EURATOM), Japan, the People's Republic of China, India, the Republic of Korea, the Russian Federation and the USA.

Legal entities cannot participate individually or as a consortium partner in more than one application or Tender of the same contract. A consortium may be a permanent, legally established grouping, or a grouping which has been constituted informally for a specific Tender procedure. All members of a consortium (i.e. the leader and all other members) are jointly and severally liable to the IO.

In order for a consortium to be acceptable, the individual legal entities included therein shall have nominated a leader with authority to bind each member of the consortium, and this leader shall be authorised to incur liabilities and receive instructions for and on behalf of each member of the consortium.

It is expected that the designated consortium leader will explain the composition of the consortium members in its offer. Following this, the Candidate's composition must not be modified without notifying the IO of any changes. Evidence of any such authorisation shall be submitted to the IO in due course in the form of a power of attorney signed by legally authorised signatories of all the consortium members.

Any consortium members shall be registered in IPROC.

9 Sub-contracting Rules

All sub-contractors who will be taken on by the Contractor shall be declared with the tender submission in IPROC. Each sub-contractor will be required to complete and sign forms including technical and administrative information which shall be submitted to the IO by the tenderer as part of its tender.

All declared sub-contractors must be established within an ITER Member State in order to participate.

The IO reserves the right to approve (or disapprove) any sub-contractor which was not notified in the tender and request a copy of the sub-contracting agreement between the tenderer and its subcontractor(s). Rules on sub-contracting are indicated in the RFP itself.

Subcontracting is allowed but limited to one level and its cumulated volume is limited to 30 % of the total Contract value.

Pre-SRO In-Vessel Assembly Sequence ICBD

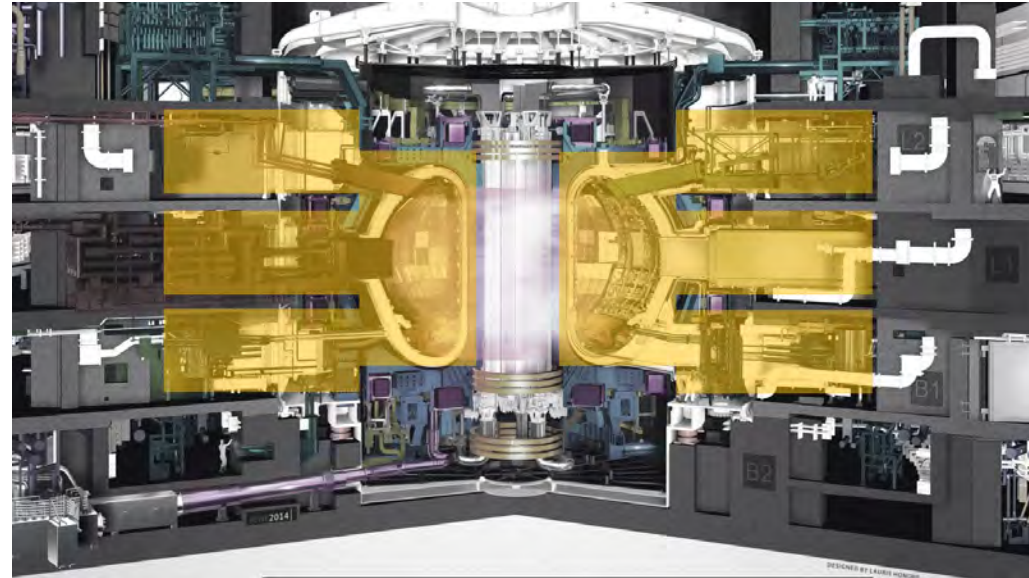
**TENTATIVE PLAN SUBJECT TO
CHANGE &
FOR INFORMATION ONLY**

A6 - In-Vessel Assembly Scope

A6 In-Vessel Assembly – ICBD MAIN SCOPE

- Blanket Module Connection
- ELM Coils
- Blanket Manifolds
- Blanket Shield Blocks
- Temporary First Walls
- Divertor

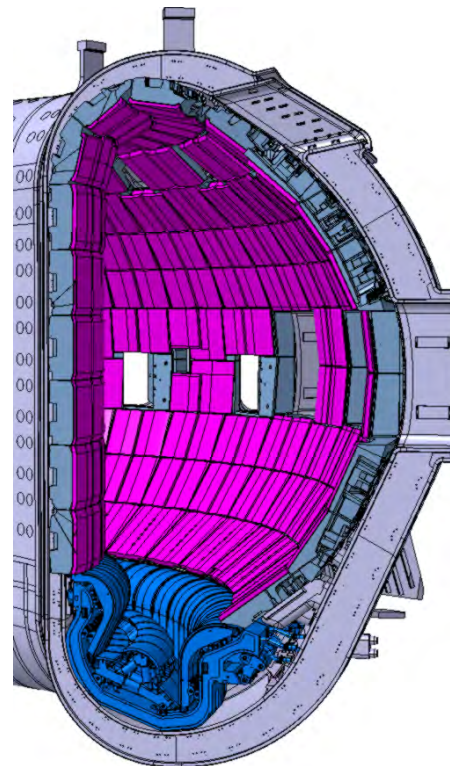
Main focus of
this
presentation



SRO Blanket configuration: Baseline 2024 Reference

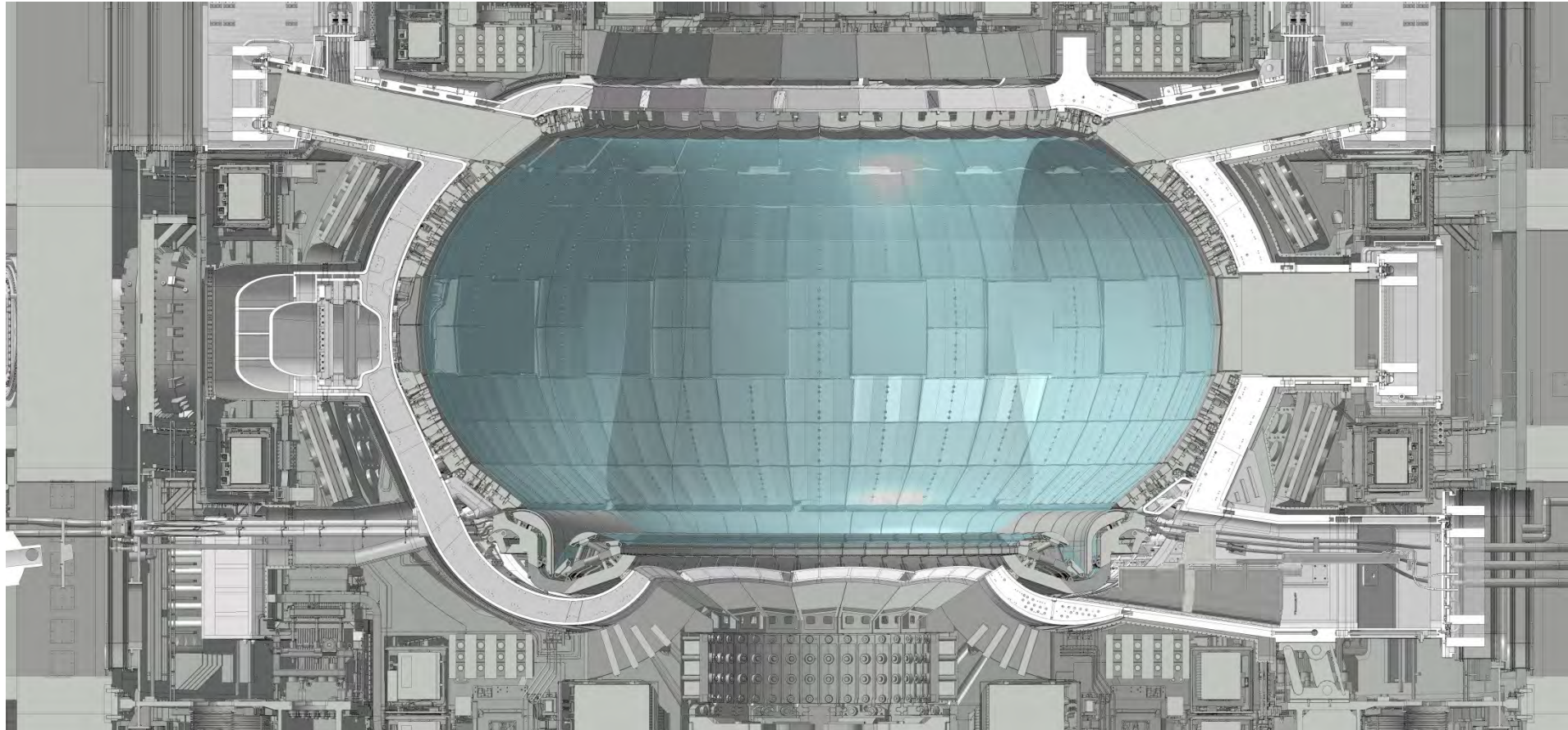
437 Temporary First Wall (inertially cooled, if instrumented TBD)
440 Shield Blocks (bolted, i.e. no welding of cooling pipes)

Reference configuration

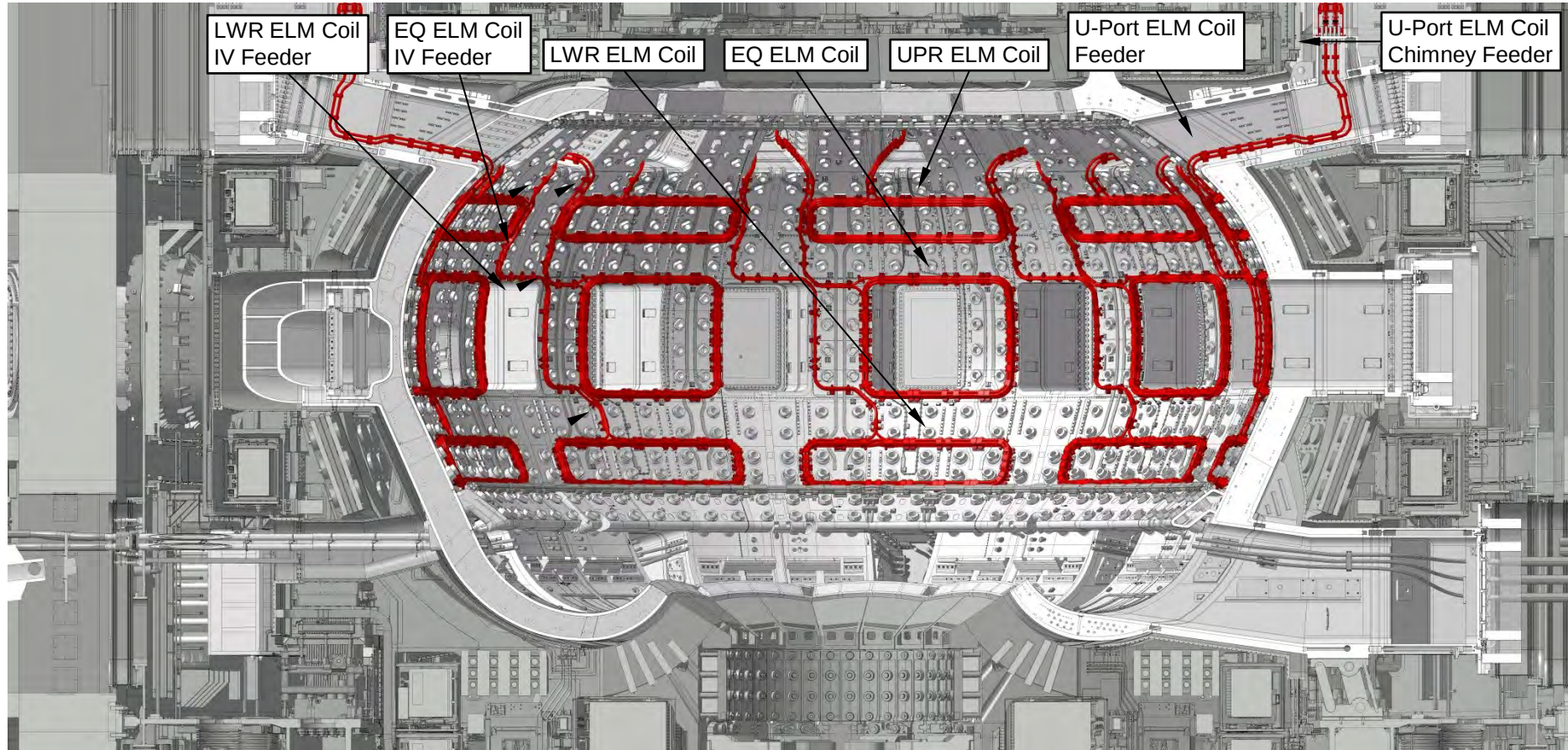


Temporary FW

End of A6 – ready for VV closure

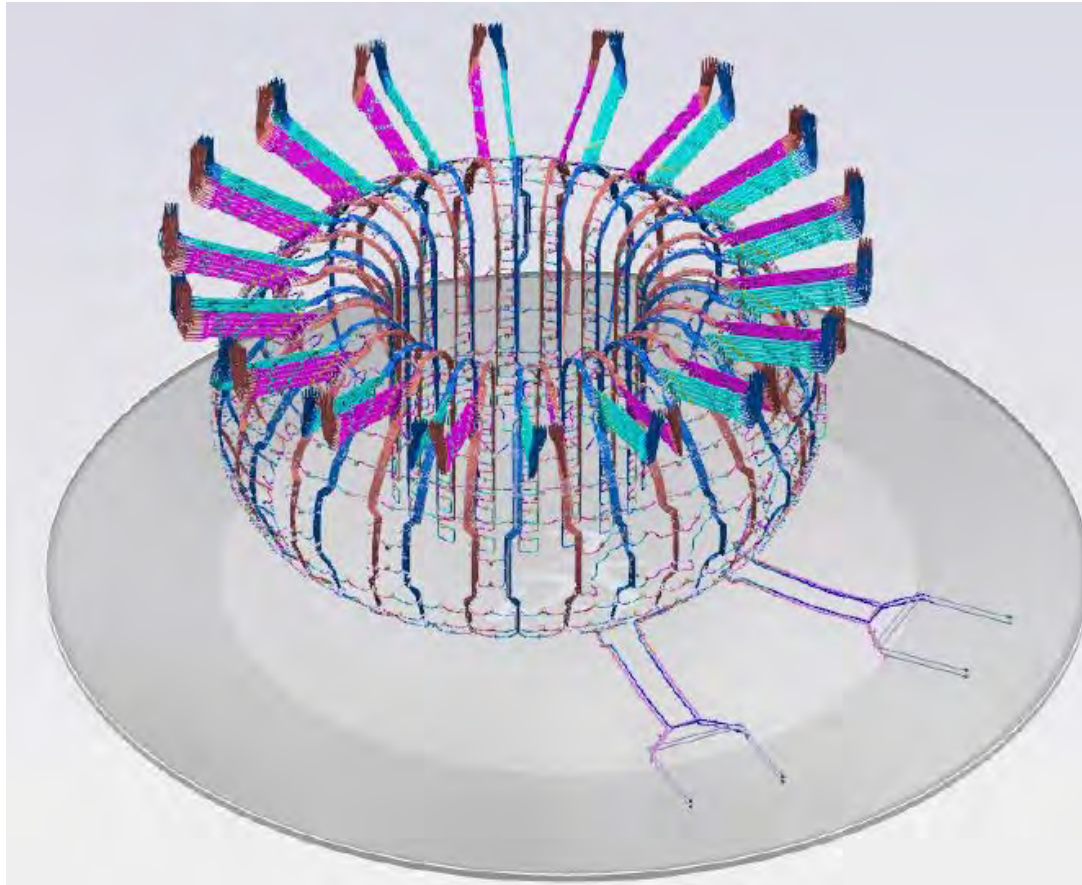


Overview of ELM Coil System



ELM coils must be installed and tested before blanket manifolds. Can be managed on a sector by sector basis ⁵

Overview of Blanket Manifold System



Blanket Manifolds

Chimney Pipes

No customization

Upper port Pipes
and supports

Outboard Bundles
(inlet and outlet)

Inboard Bundles
(inlet and outlet)

Branch pipes

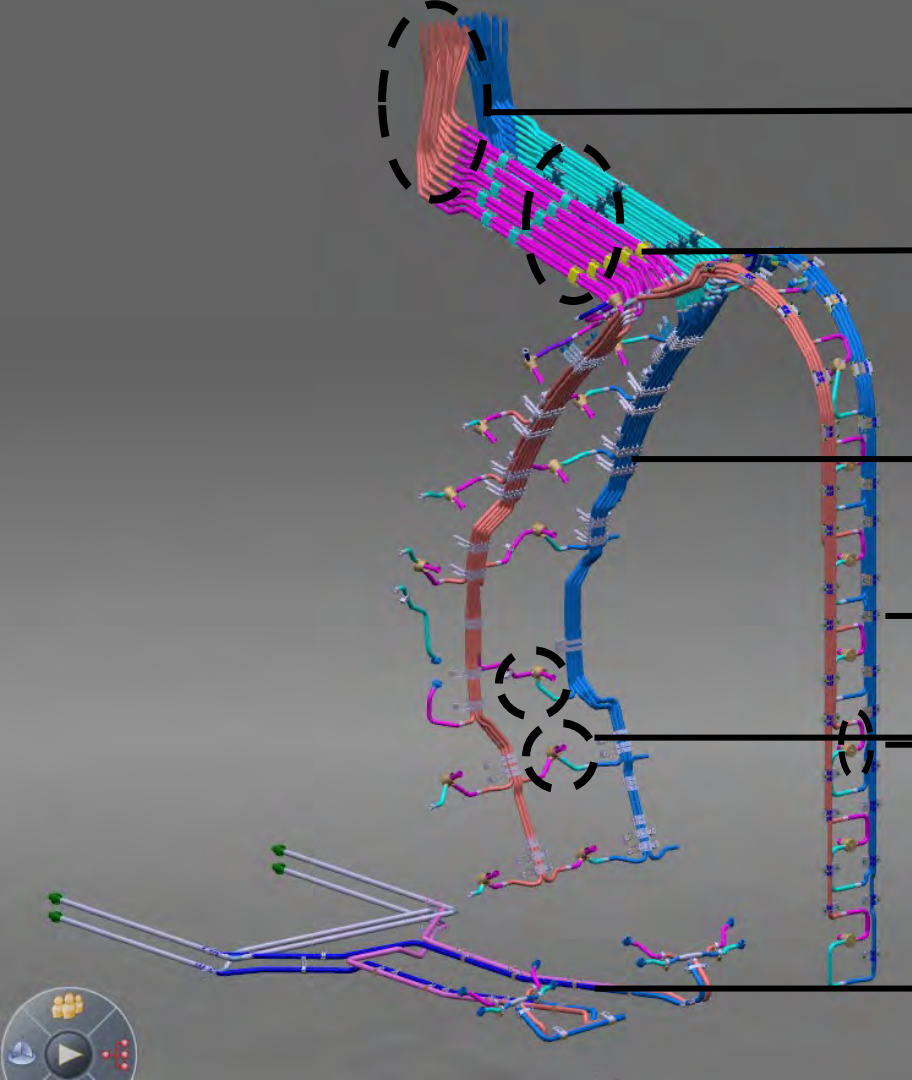
Lower Port pipes

Customization
required

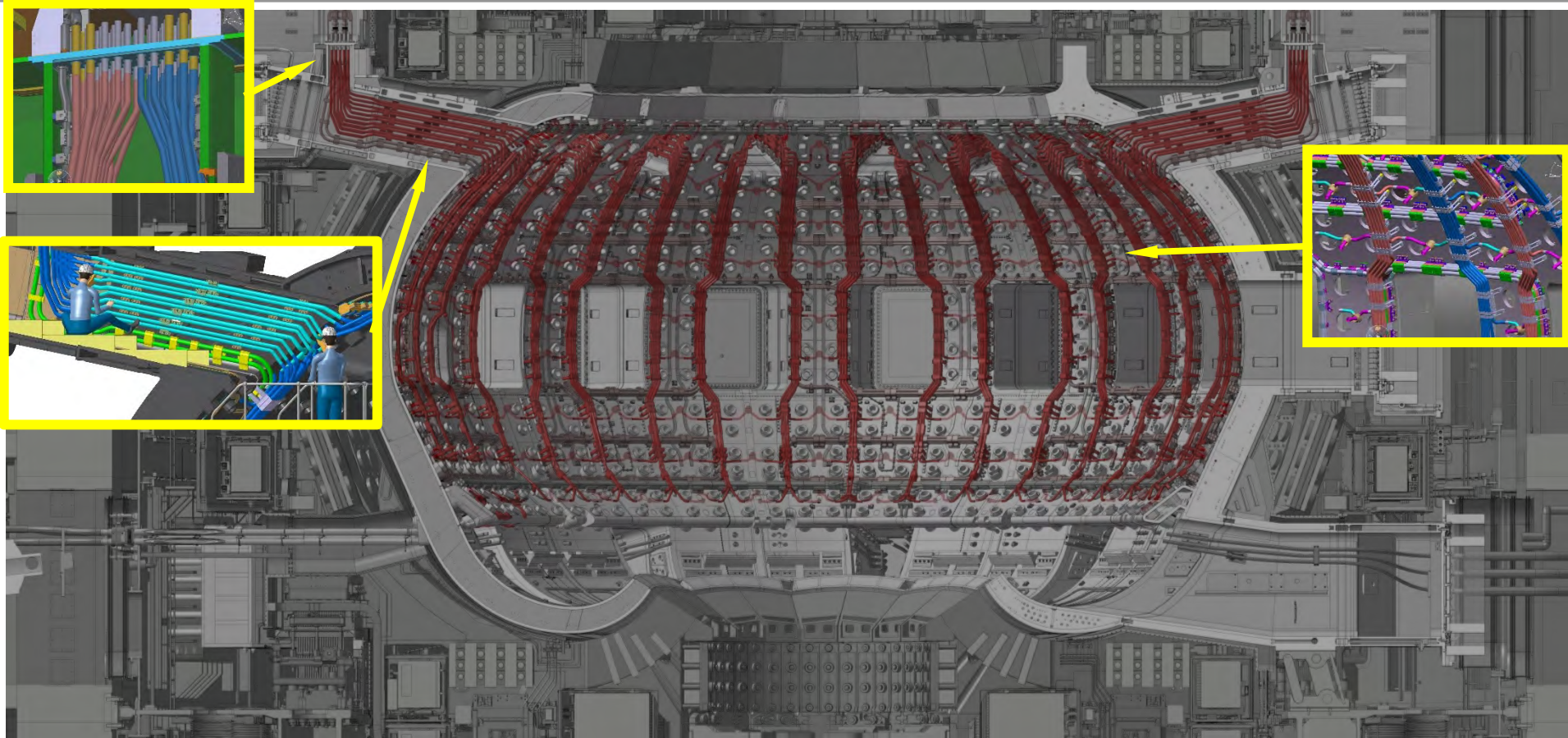
ITER Organization

GRD – Prior Information Notice – Annex I

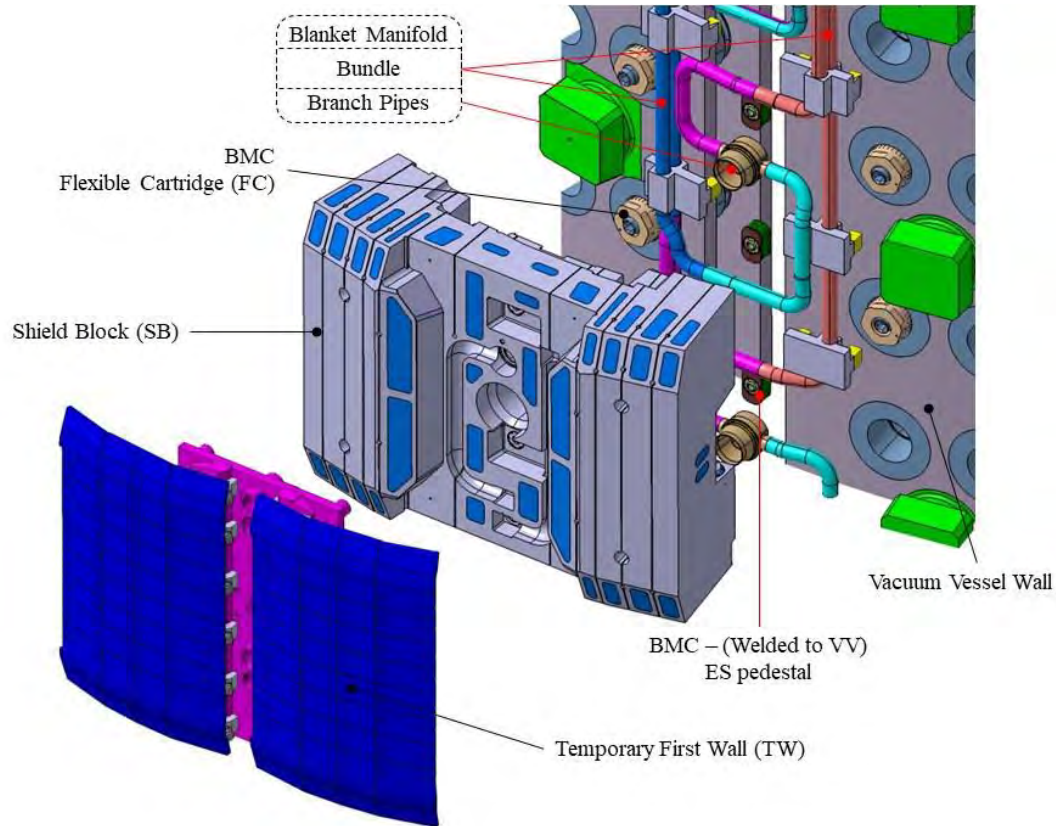
IDM
v1.0



ELM Coils, Manifold Branch Pipes



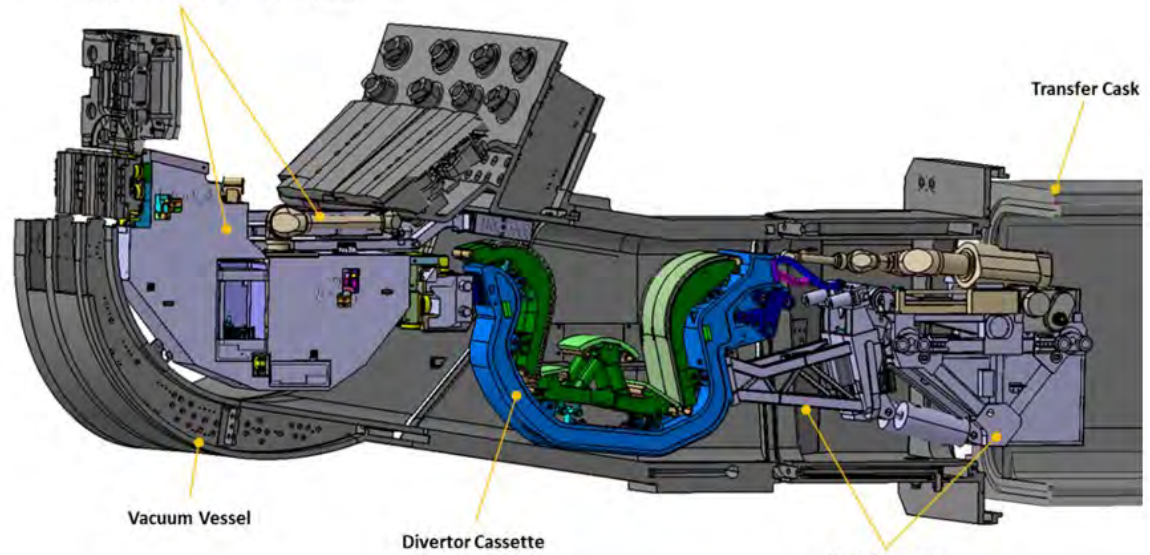
Blanket Shield Block and Temporary First Wall



Divertor



Toroidal System
including Mover (CTM) and Manipulator (MAM)

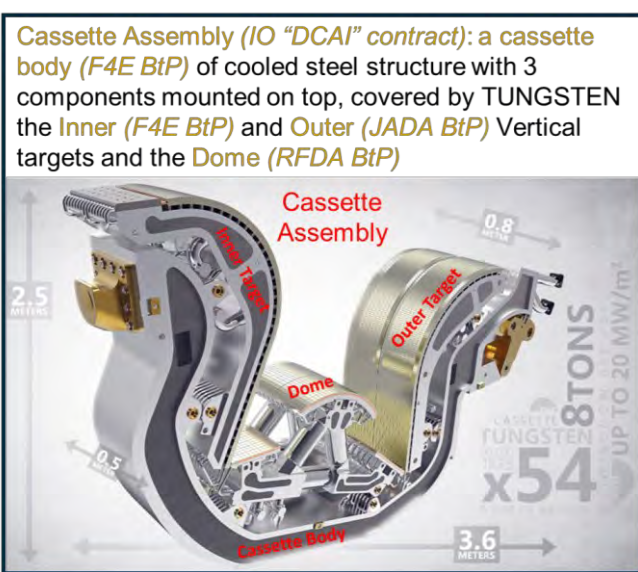


Vacuum Vessel

Divertor Cassette

Radial System
including End Effector (EE), Mover (CMM) and Manipulator (MAM)

Transfer Cask



Cassette Assembly

Outer Target

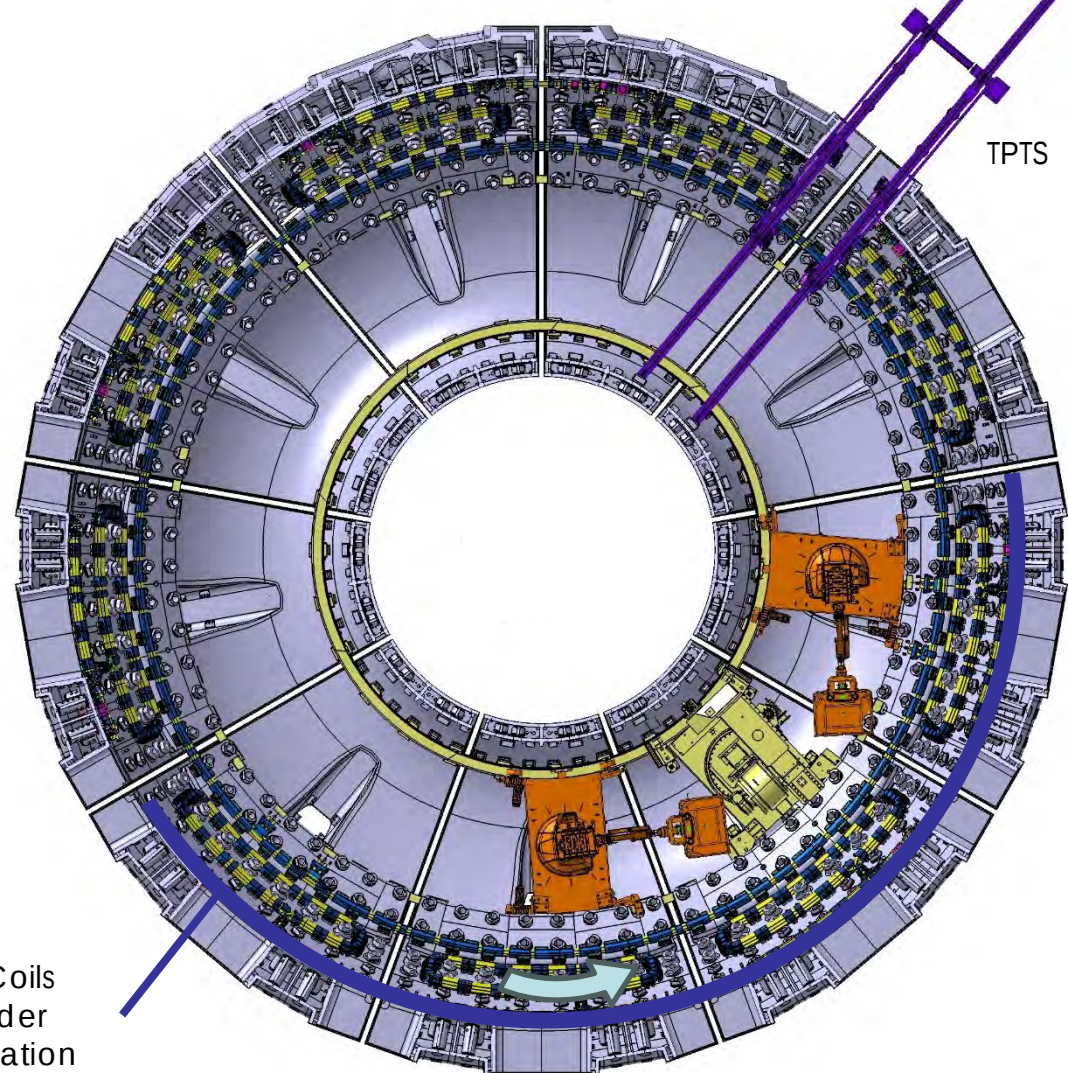
Dome

Cassette Body

8 TONS
UP TO 20 MW/m²
CASSETTE COVERED BY
TUNGSTEN
x54

STAGE-1

- VS Coils installation IVTC + Nacelles
- TPTS set up for ELC Coils Handling



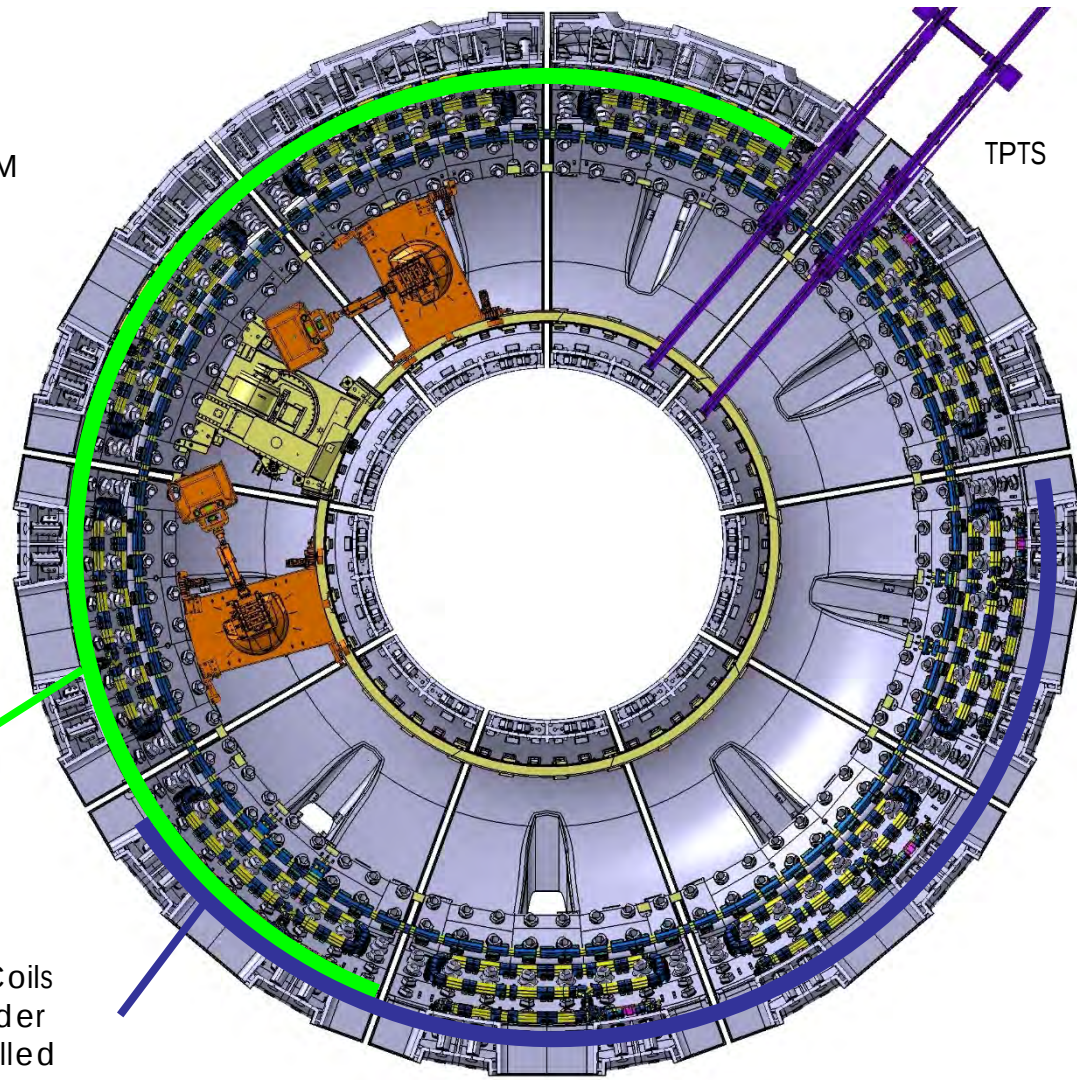
STAGE-2

- IVTC and Nacelles bolt ELM Coils to VV Walls on 5 sectors

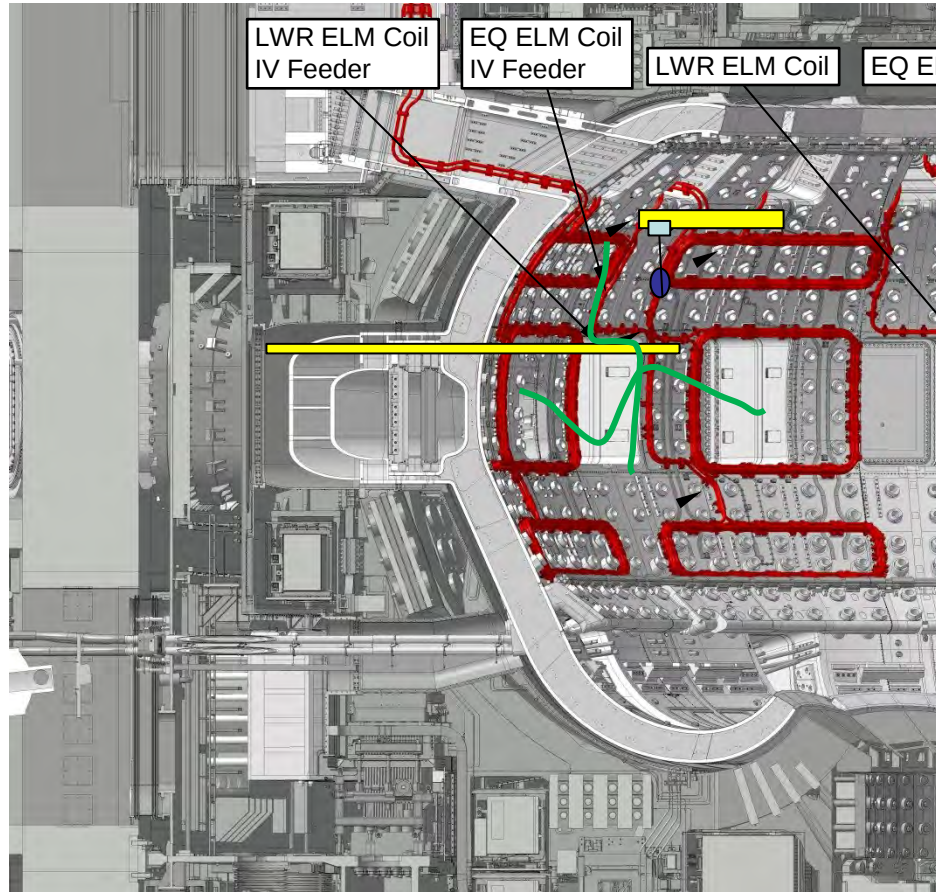
ELM Coils
bolting to
VV

VS Coils
feeder
installed

TPTS



Overview of ELM Coil System



All Levels of Staging are installed

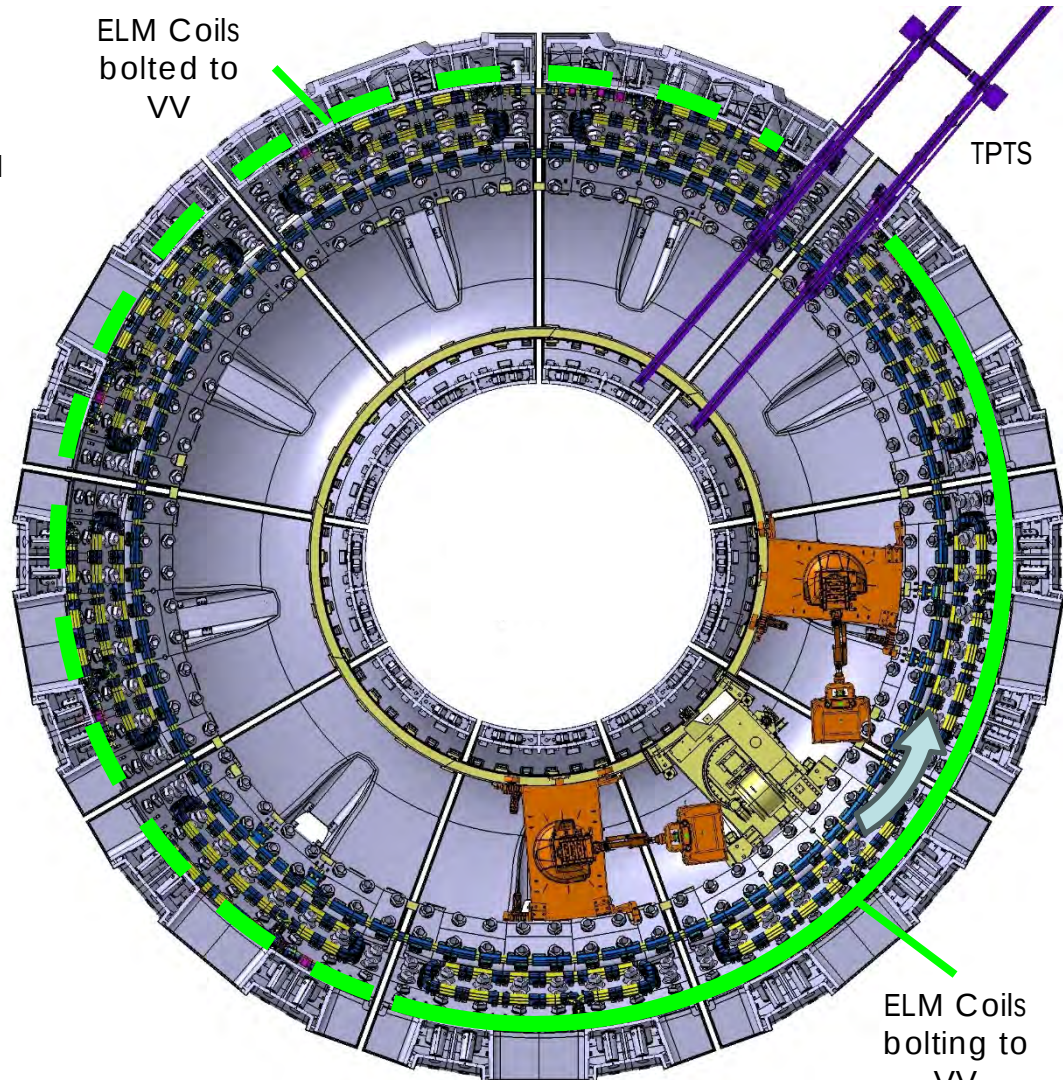


Figure 7.1-1 Staging installed

ELM coils must be installed and tested before blanket manifolds. Can be managed on a sector by sector basis 13

STAGE-3

- IVTC and Nacelles bolt ELM Coils to VV Walls on 4 sectors

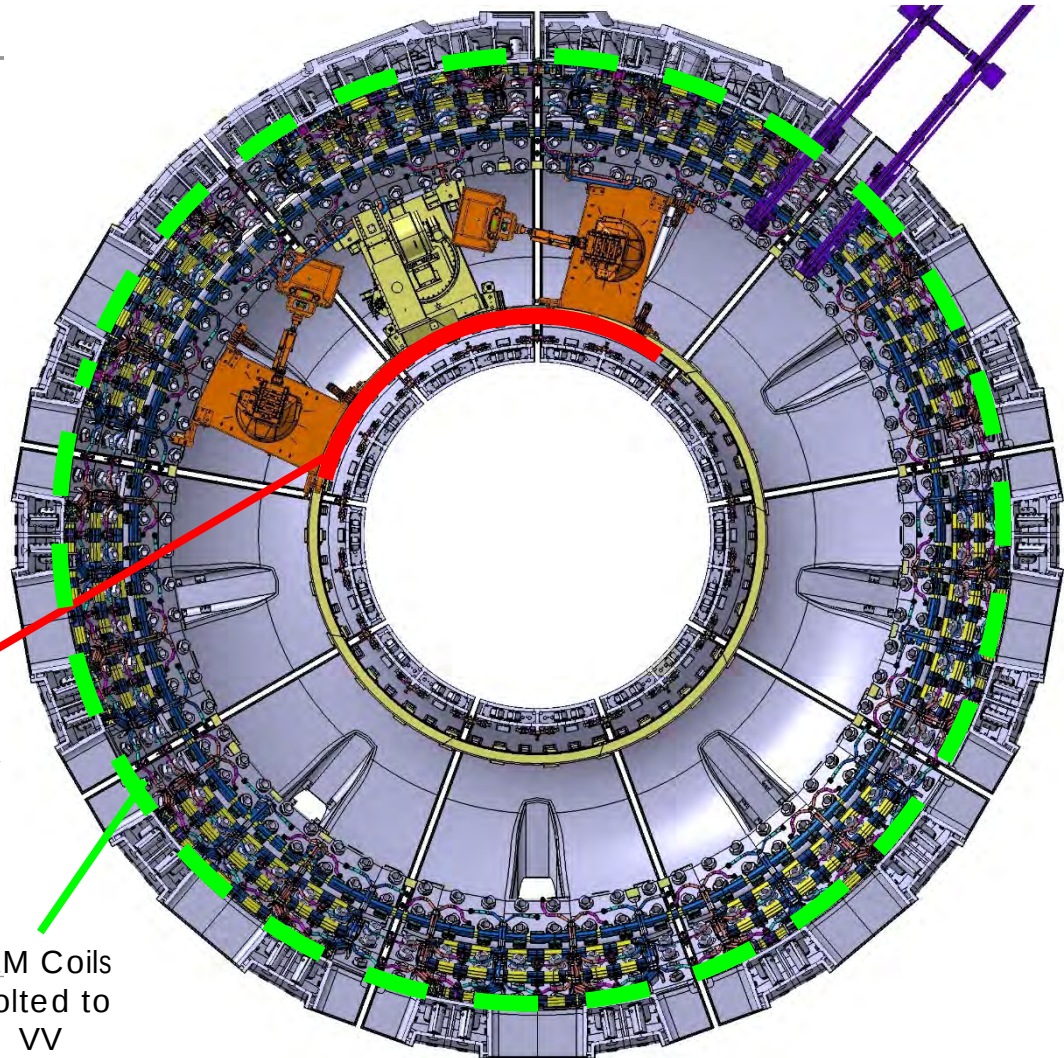


STAGE-4

- TPTS set up for Manifold handling
- All ELM Coils bolted to VV Wall
- IB Manifold Bundles are bolted on 1st triplet (3 sectors)

IB Manifold
Bolted to VV
Wall

ELM Coils
bolted to
VV



Blanket Manifolds

Chimney Pipes

No customization

Upper port Pipes
and supports

Outboard Bundles
(inlet and outlet)

Inboard Bundles
(inlet and outlet)

Branch pipes

Lower Port pipes

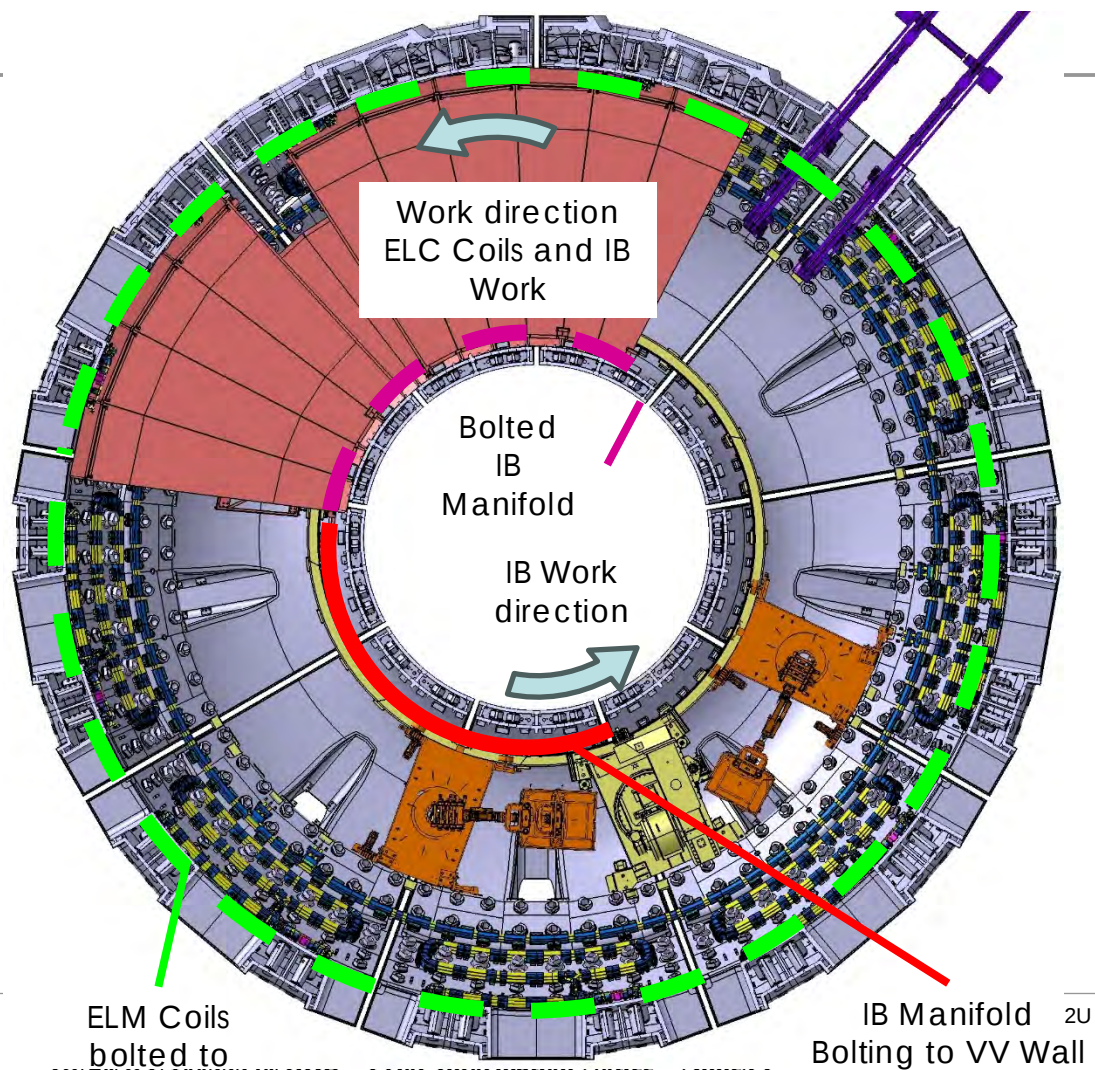
Customization
required

STAGE-5

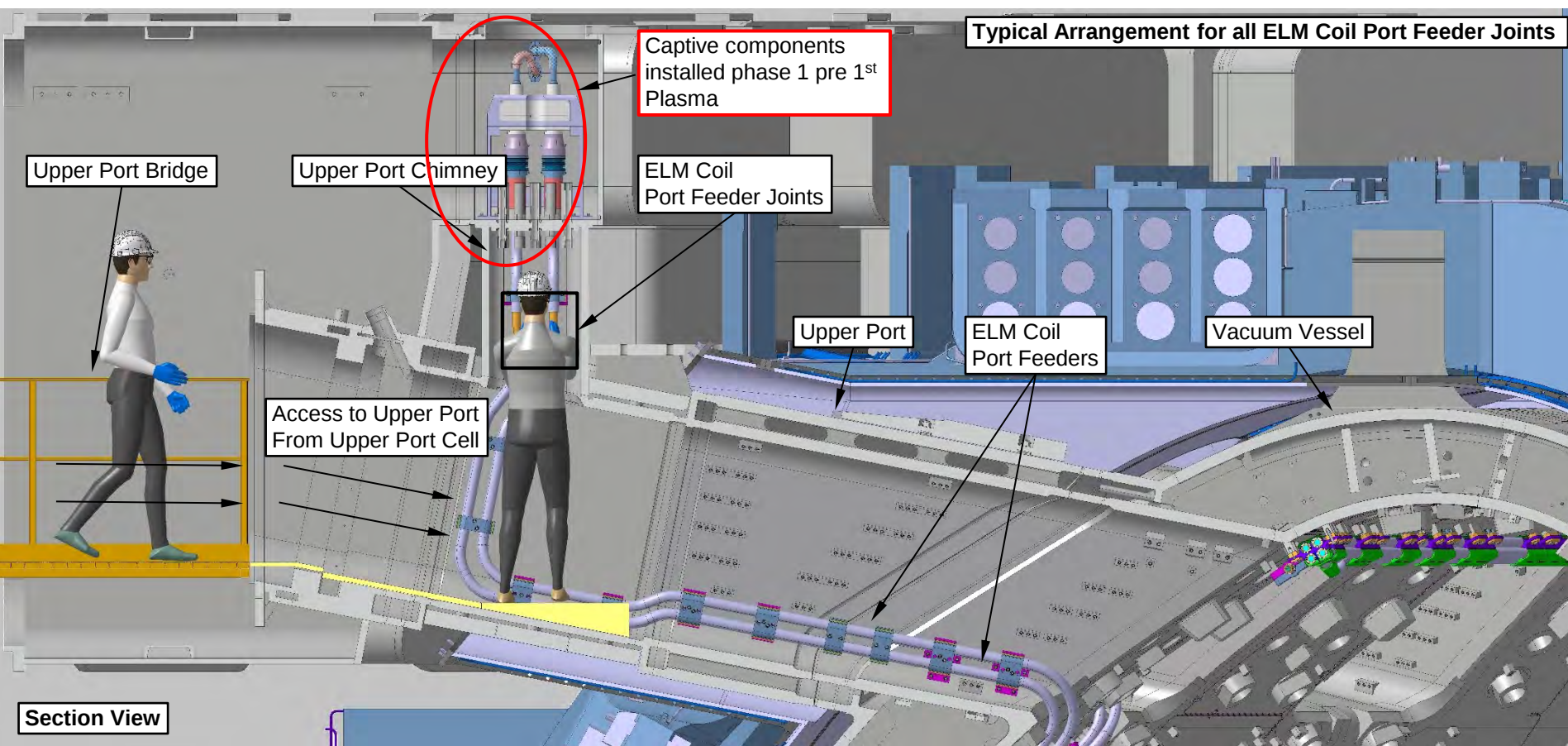
- Staging erected on 3 Sectors
- Staging work
 - ELC Coils and feeders' installation
 - IB Bundle End of installation + metrology
- IB Manifold Bundles are bolted on next triplets (3 sectors)
- Chimney Pipe installation following each ELM upper port completion

Important:

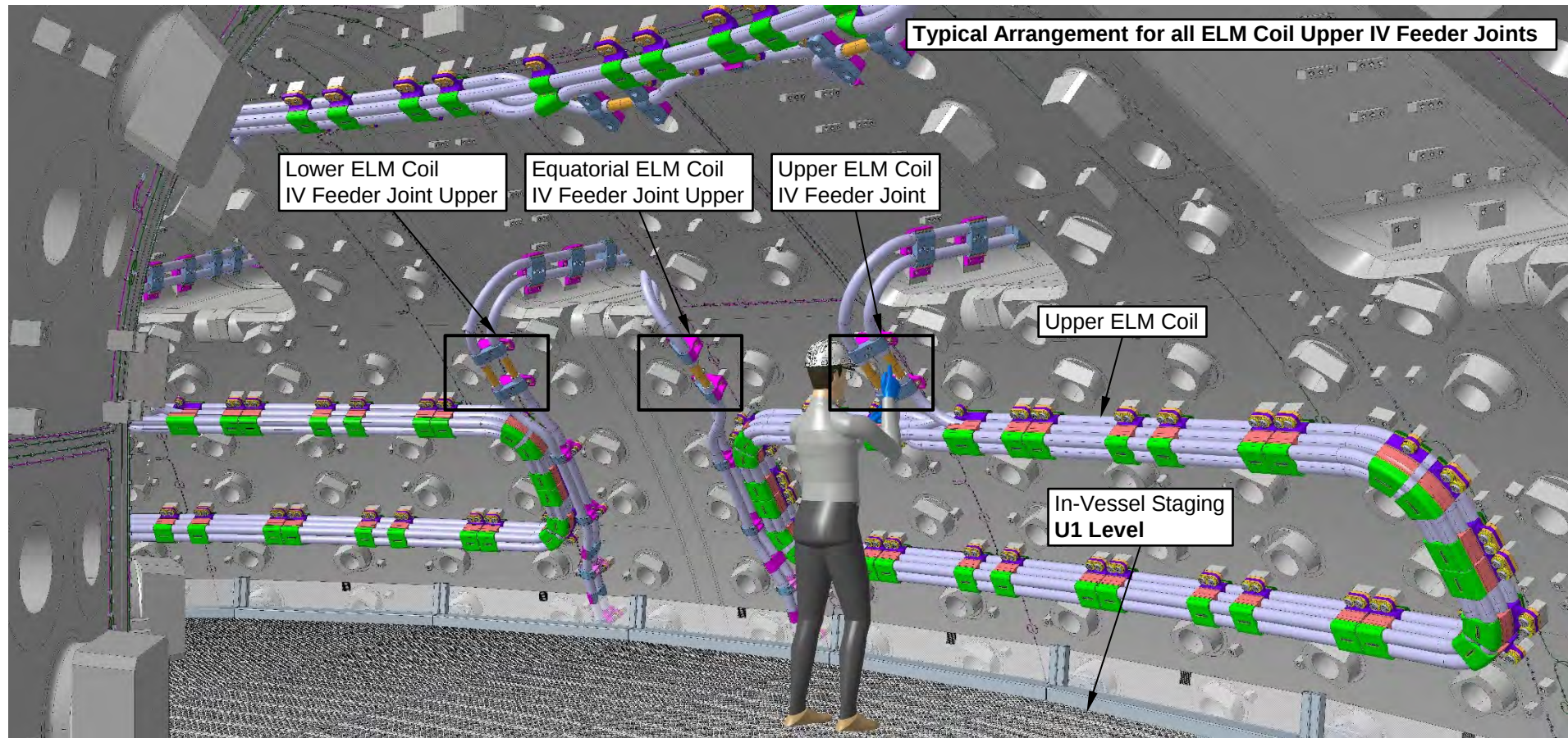
- Coils and Feeder installation shall start from the lower level toward upper level.
- Nacelles can be parked under Staging Equatorial Level
- IVTC , without its mast extension, can move under Upper Port staging level (see last slide)



ELM Coil Port Feeder Joints



ELM Coil Feeder Joints



ELM Coil Feeder Joints & Inboard Branch Pipes welding

All Levels of Staging are installed



Figure 2.2-1 Staging installed

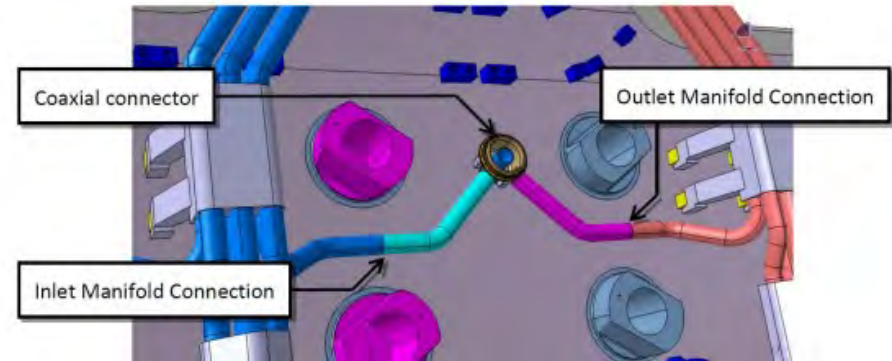
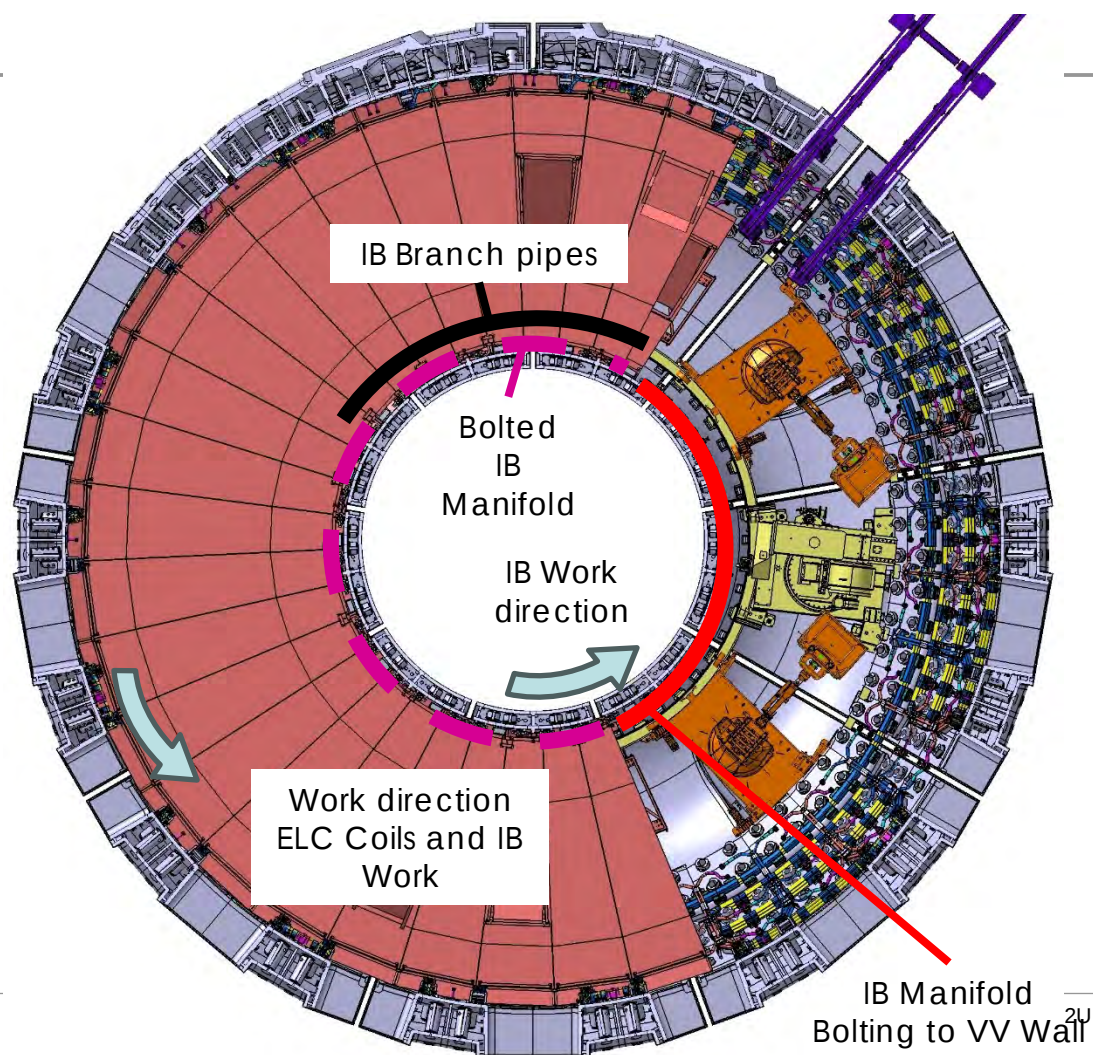


Figure 2.2-6 – V-Type Branch pipes

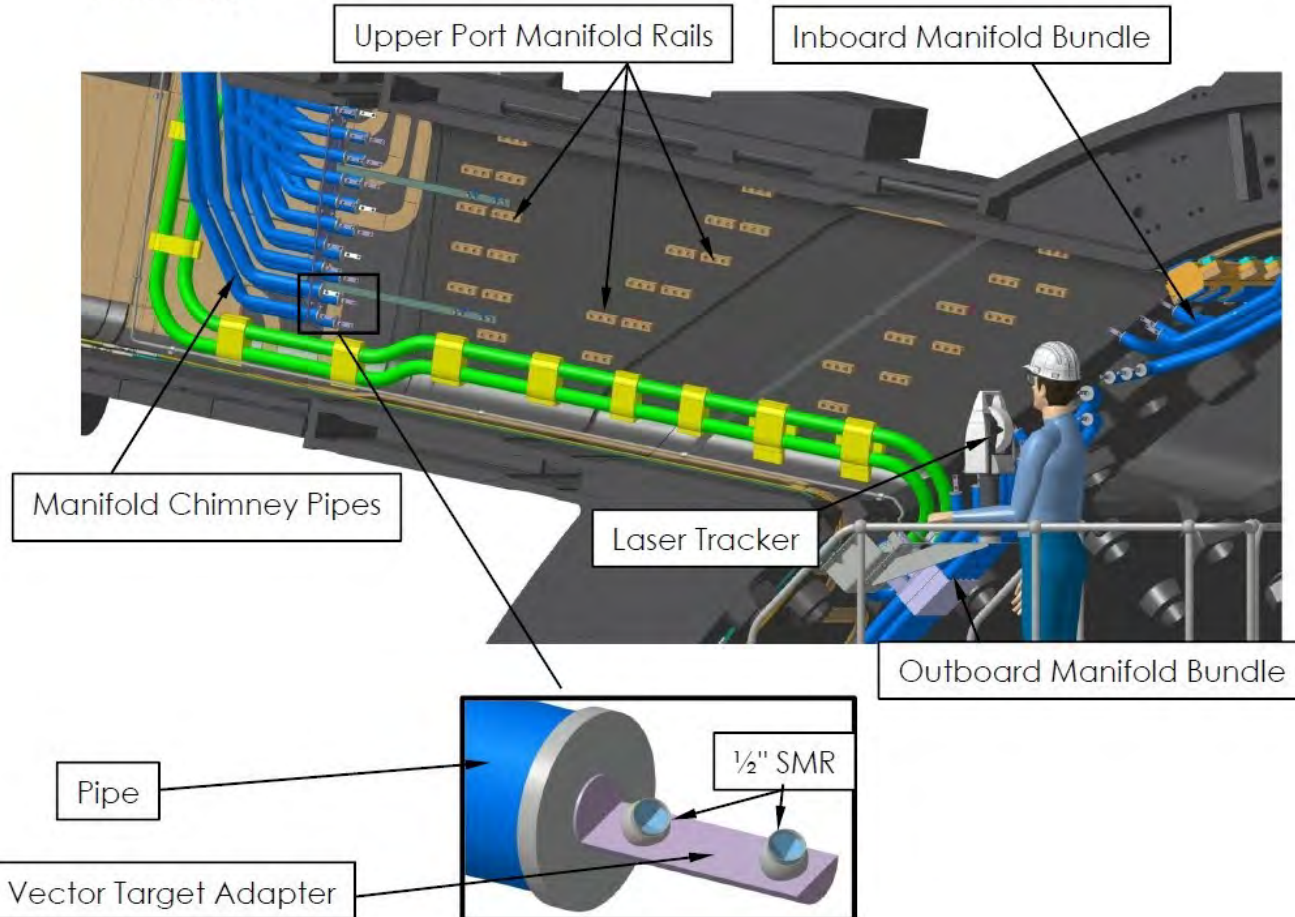
STAGE-6

- Staging erected on 3 additional Sectors
- Staging work
 - ELC Coils and feeders' installation
 - IB Bundle End of installation + metrology
- IB Manifold Bundles are bolted on remaining triplets (3 sectors)
- Chimney Pipe installation following each ELM upper port completion
- Installation of IB Branch pipes on 3 sectors



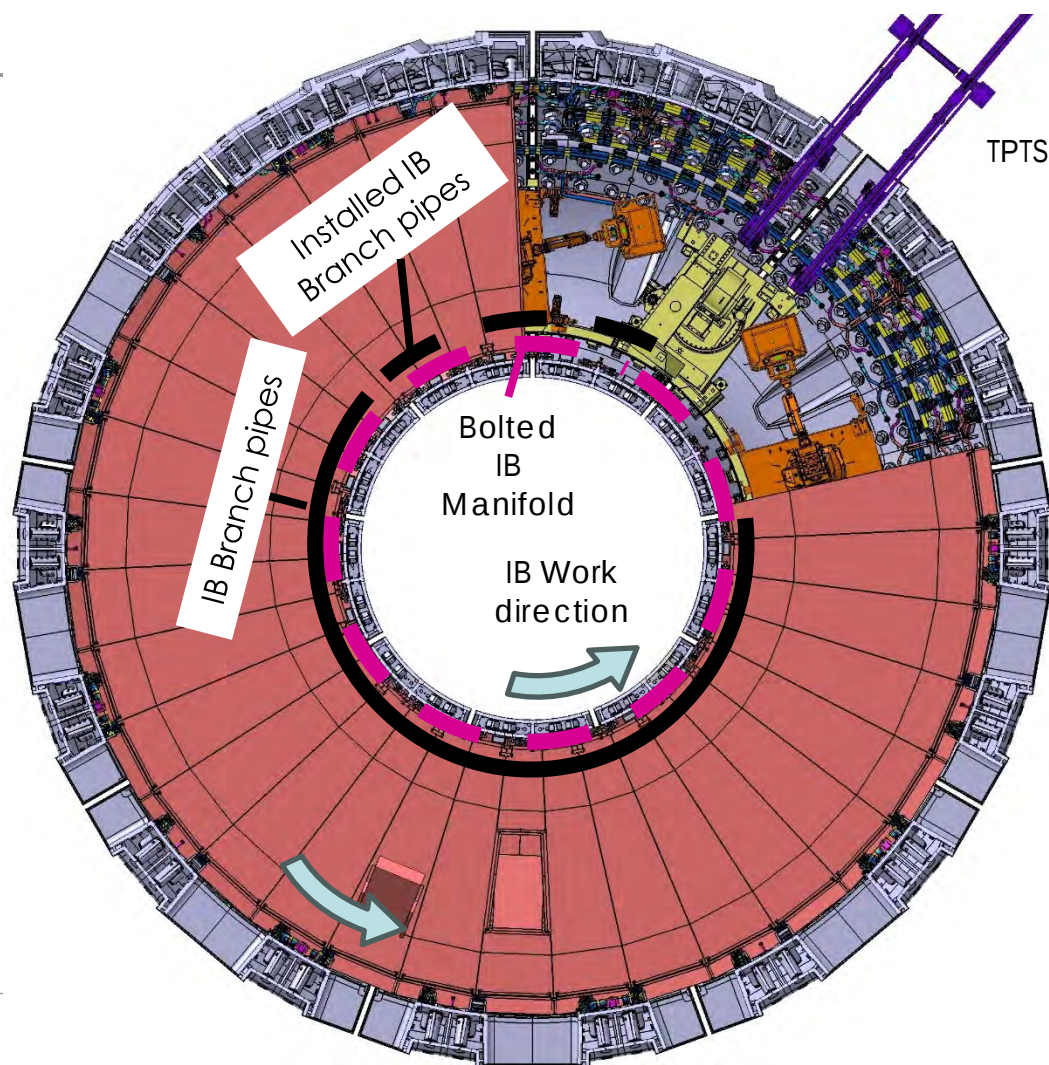
ELM Coil Port Feeder Joints

extension pipes.

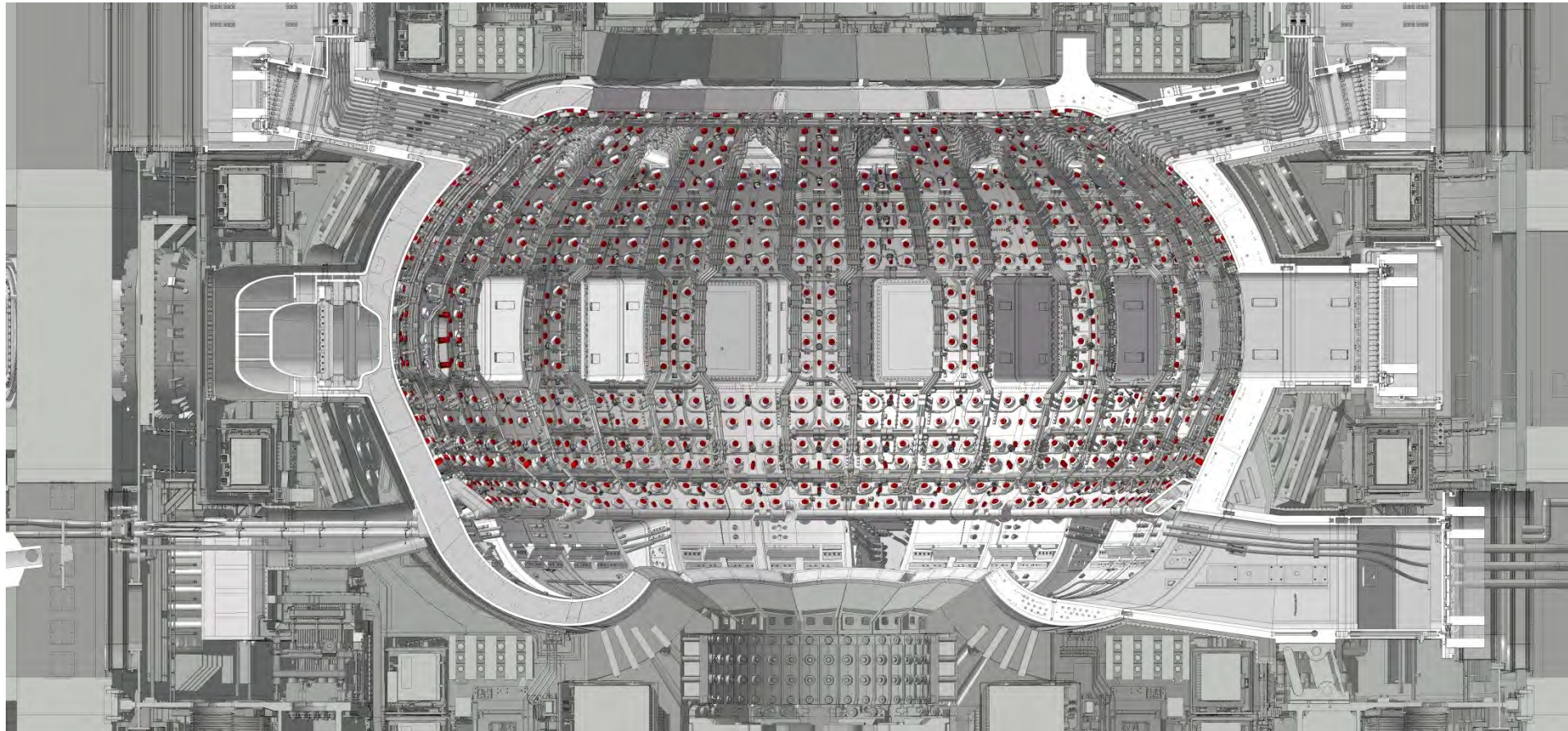


STAGE-7

- Staging on 7 Sectors
- Staging work
 - ELC Coils and feeders' installation
 - IB Bundle End of installation + metrology
- IB Manifold Bundles are all bolted to VV Rails
- Chimney Pipe installation following each ELM upper port completion
- Installation of IB Branch pipes on 6 sectors
- Sector 1
 - IB Bundle + Branch Pipes installation completed
 - ELM Coils + Feeders installation Completed

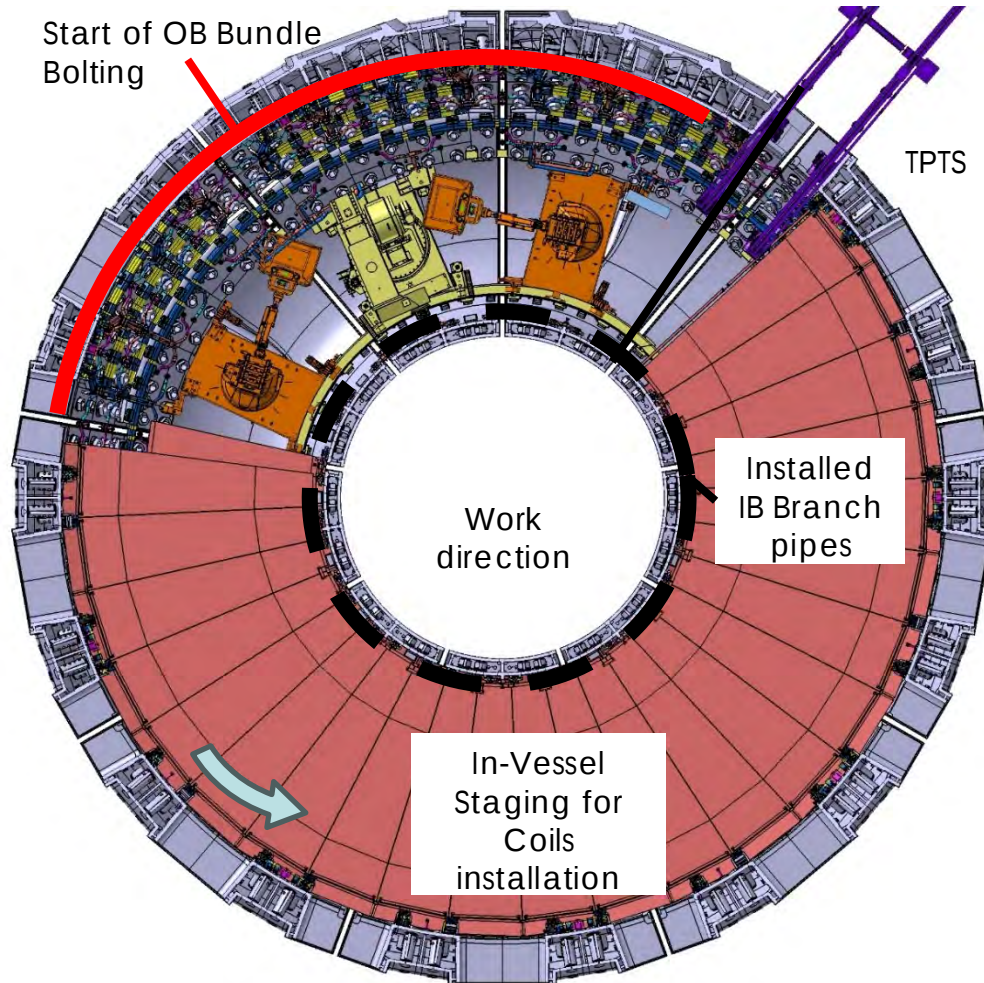


A7 – Blanket Attachments



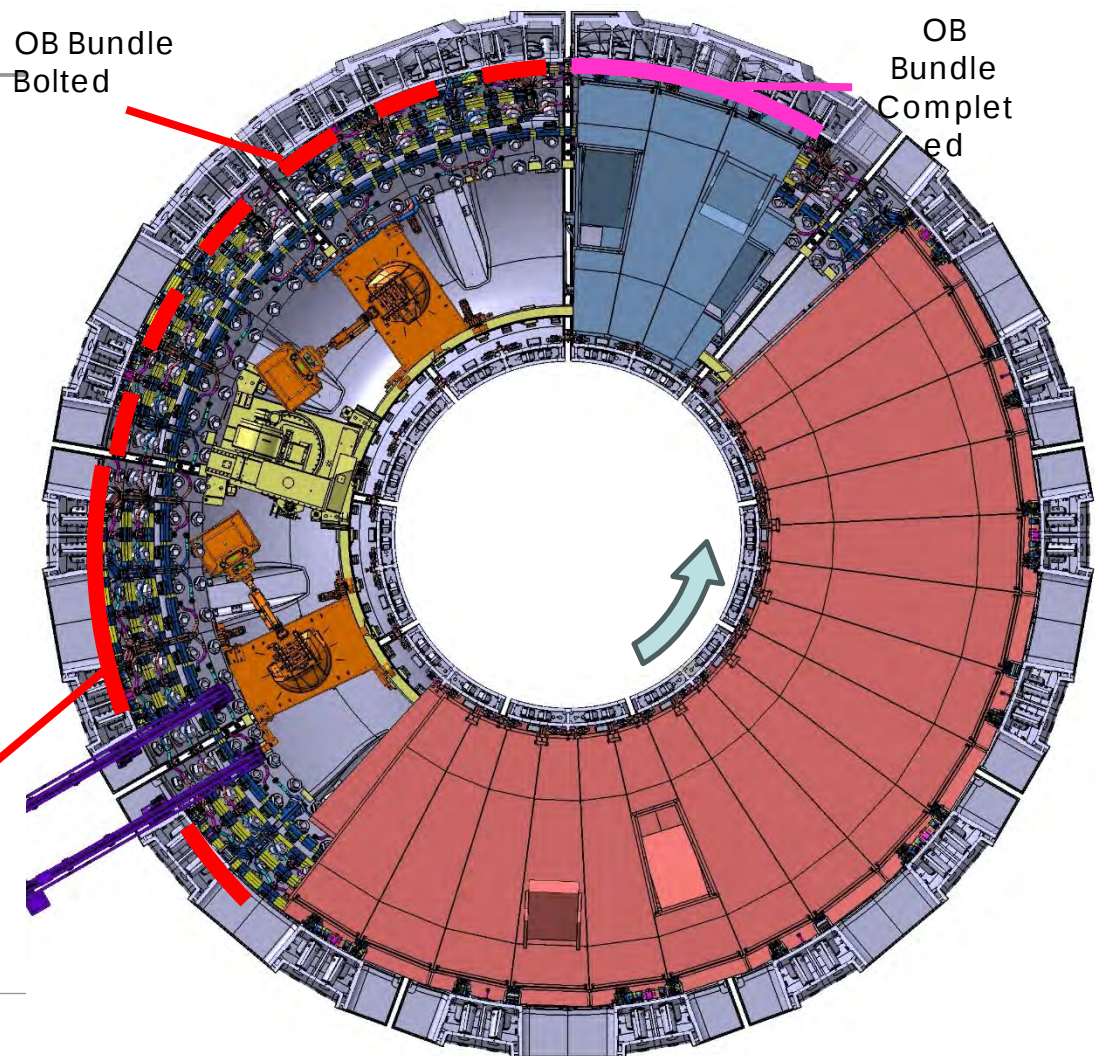
Outboard Manifolds Bundles Installation

- Staging installed on 6 sectors
- All IB Branch pipes installation completed
- Chimney pipes installation progress as Coils and feeder are fully installed
- OB Bundle bolting in VV Rail on 3 sectors (except next to TPTS due to collision with TPTS)

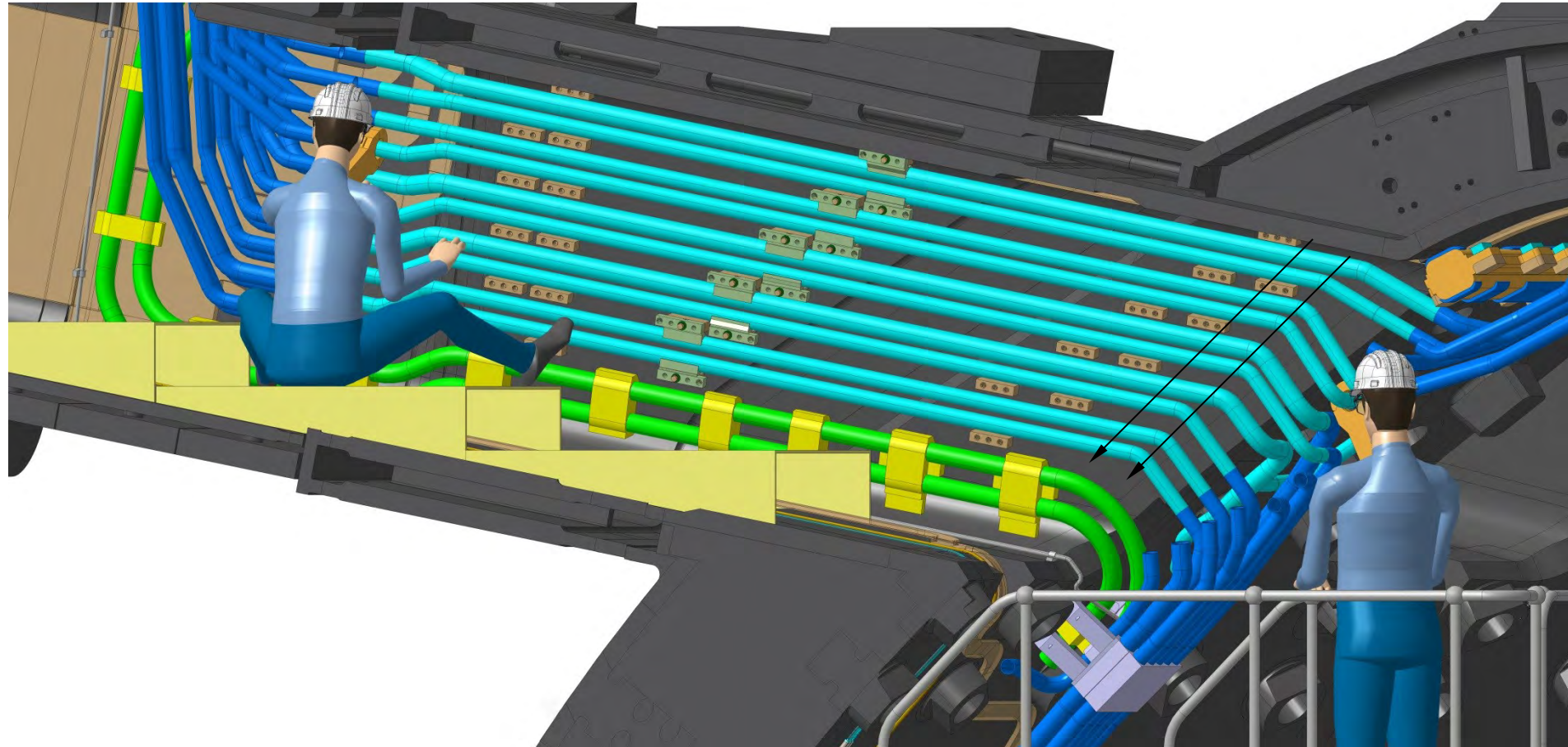


STAGE-9

- TPTS “moved” to another port
- Staging installed on 6 sectors
- Chimney pipes installation progress as Coils and feeder are fully installed
- OB Bundle bolting in VV Rail on 2 sectors (except next to TPTS due to collision with TPTS)
- Staging work
 - (Red) ELC Coils and feeders' installation
 - (Blue) OB Bundle End of installation + metrology
 - OB Bundle Bolting



Installation of Upper Port Manifold Pipes



Installation and welding of Outboard Branch pipes

All Levels of Staging are installed



Figure 7.3-1 – Staging installed

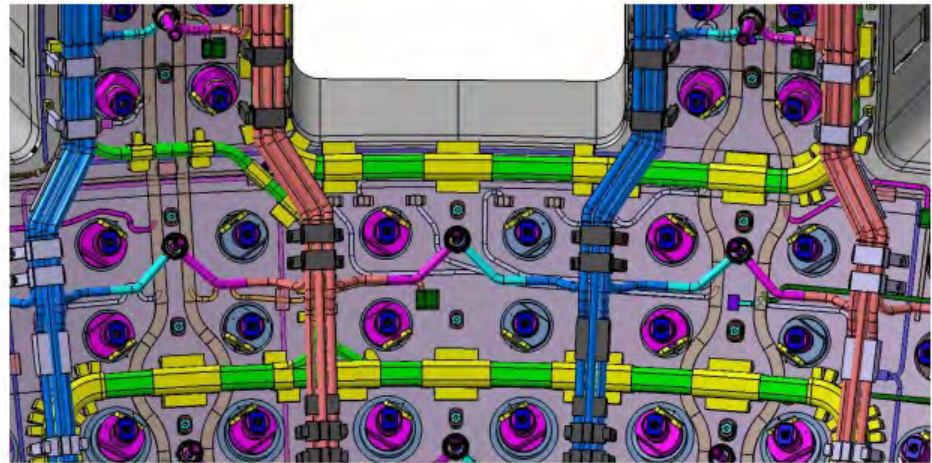
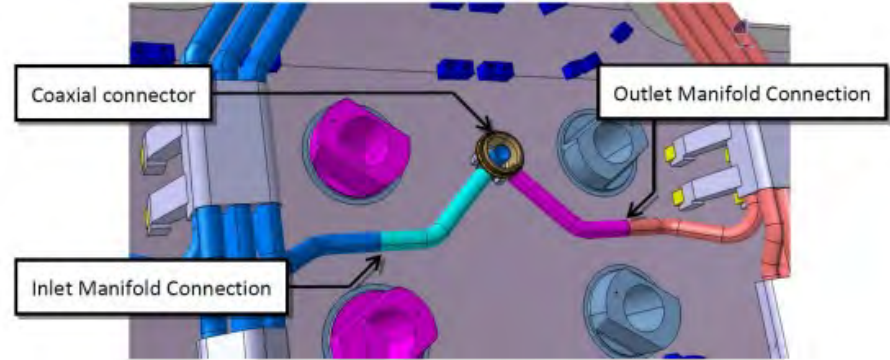
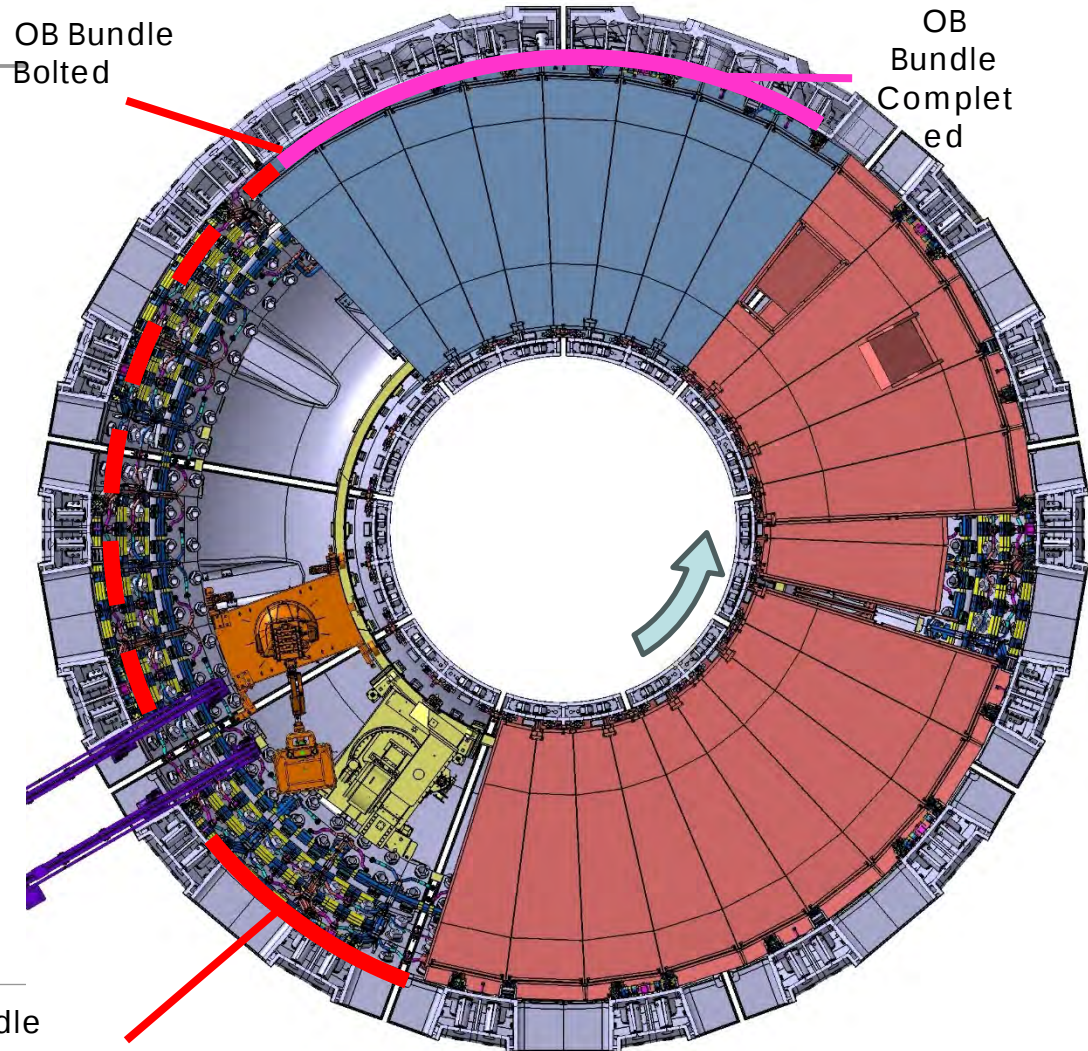


Figure 7.3-8 – Completed Outboard Circuit Blankets 16C-16S

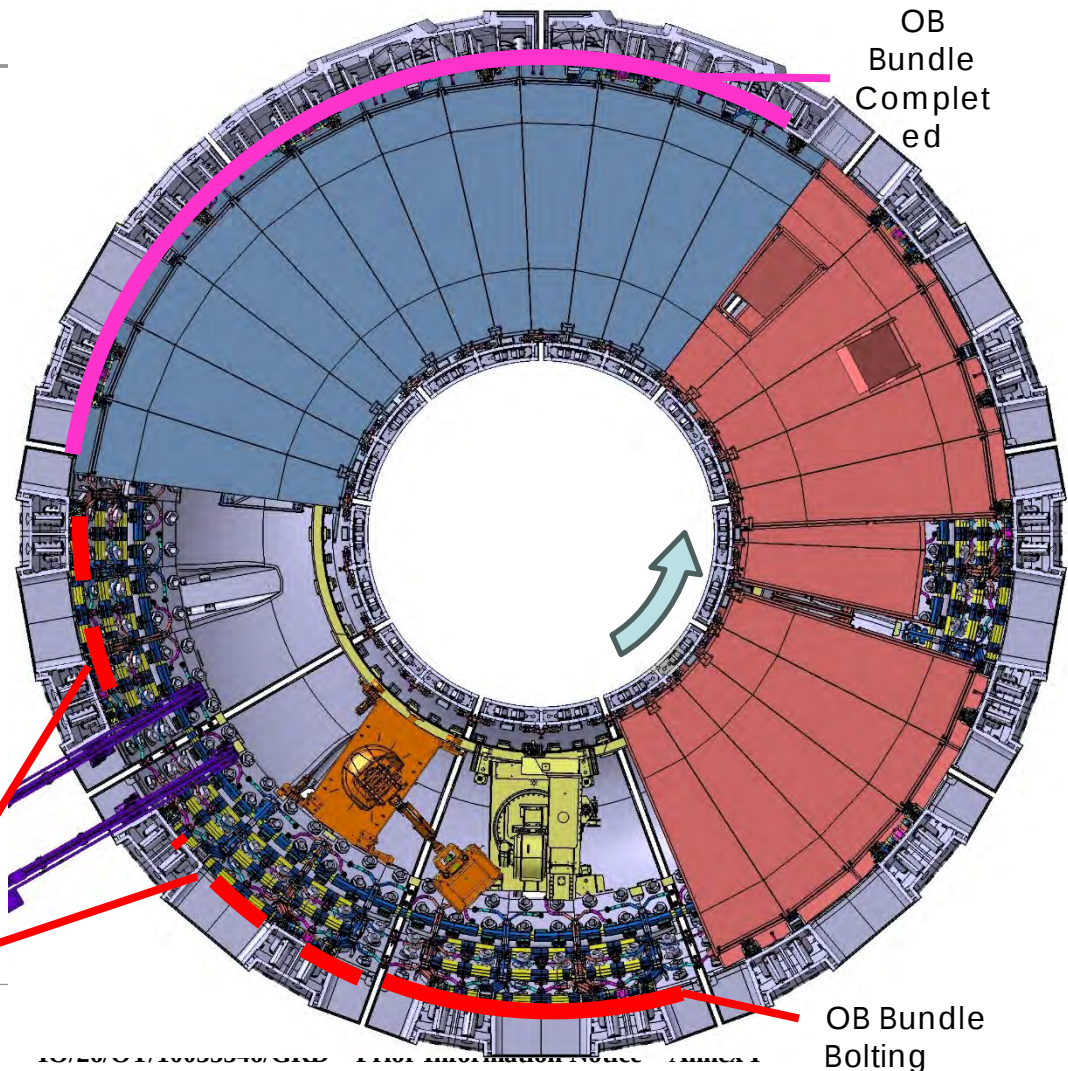
STAGE-10

- Staging installed on 6 sectors
- Chimney pipes installation progress as Coils and feeder are fully installed
- OB Bundle bolting in VV Rail on 1 sectors (except next to TPTS due to collision with TPTS)
- Staging work
 - (Red) ELC Coils and feeders' installation
 - (Blue) OB Bundle End of installation + metrology
 - (Blue) IB Upper Port Pipes installation



STAGE-11

- Staging installed on 6 sectors
- Chimney pipes installation progress as Coils and feeder are fully installed
- OB Bundle bolting in VV Rail on 1 sectors
- Staging work
 - (Red) ELC Coils and feeders' installation
 - (Blue) OB Bundle End of installation + metrology
 - (Blue IB Upper Port Pipes installation

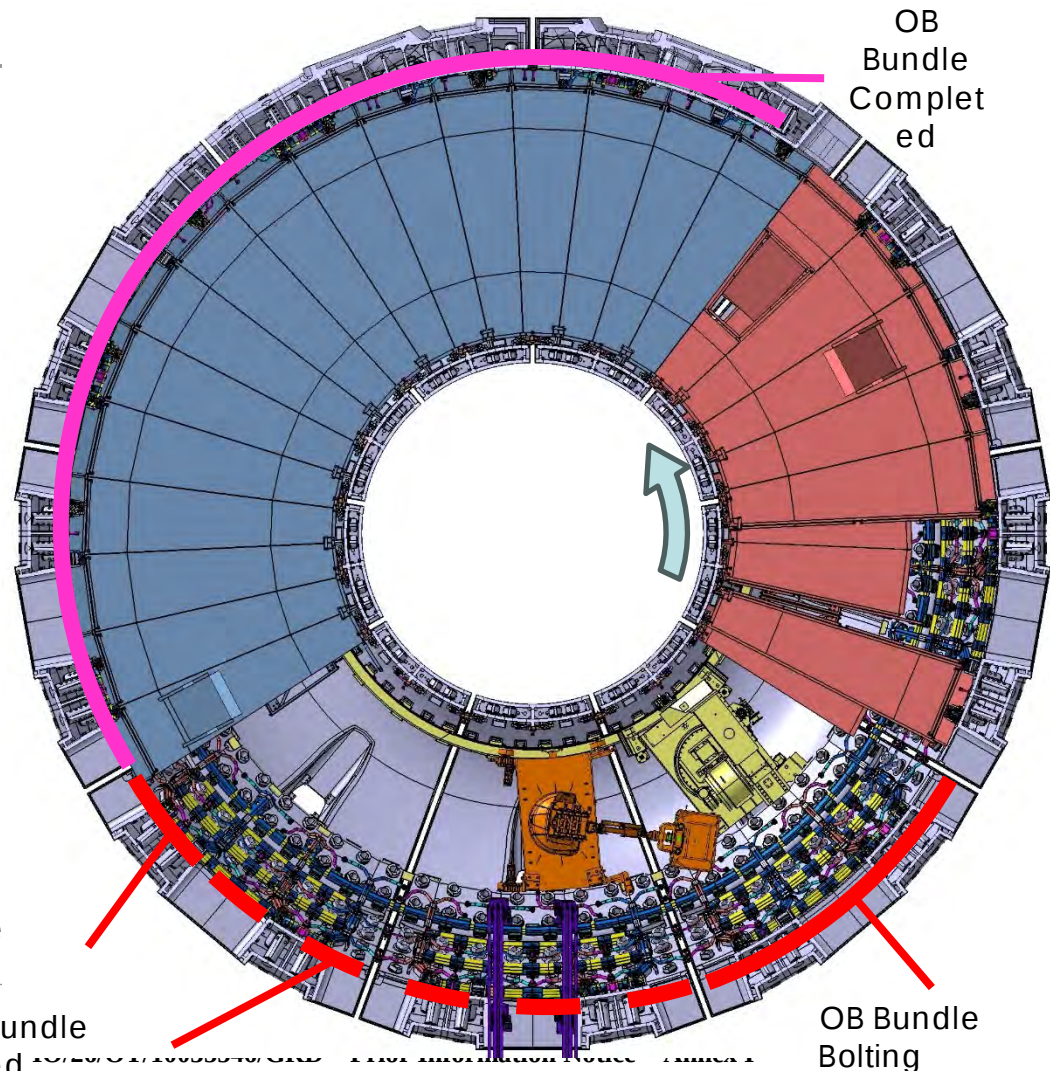


OB Bundle
Bolted

OB Bundle
Bolting

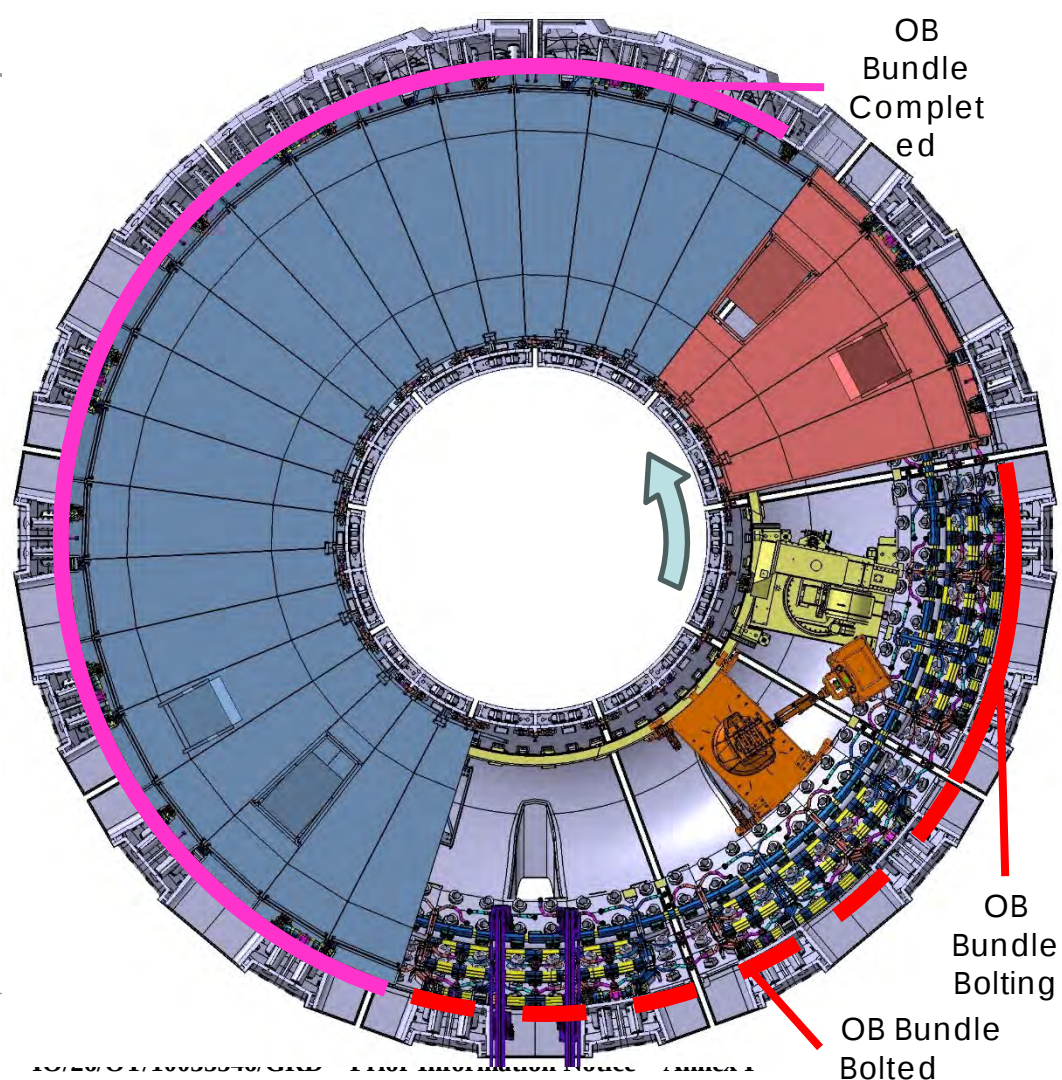
STAGE-12

- TPTS “moved” to another port
- Staging installed on 6 sectors
- Chimney pipes installation progress as Coils and feeder are fully installed
- OB Bundle bolting in VV Rail on 1 sectors + where previous TPTS was
- Staging work
 - (Red) ELC Coils and feeders' installation
 - (Blue) OB Bundle End of installation + metrology
 - (Blue) IB Upper Port Pipes installation



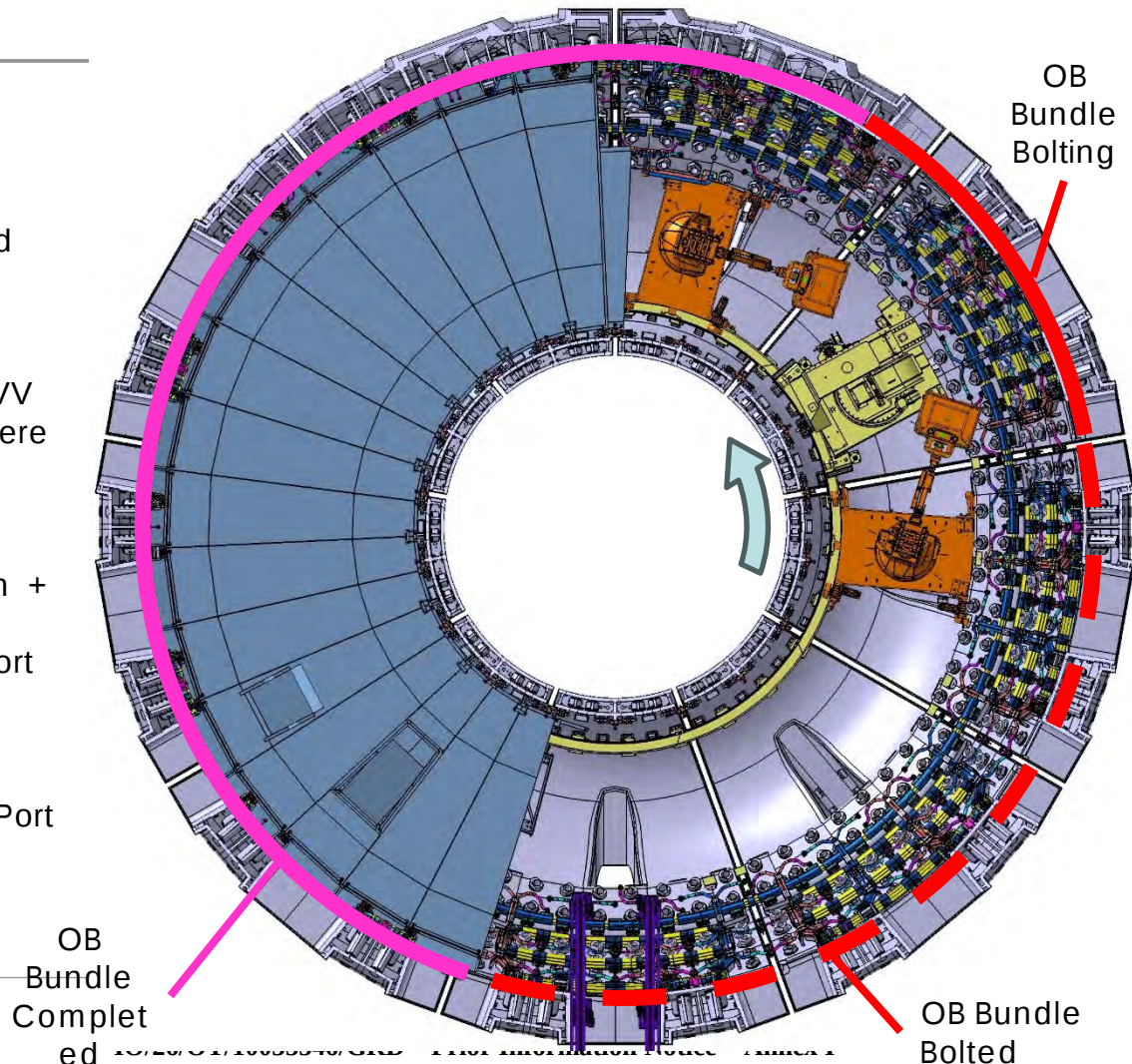
STAGE-13

- Staging installed on 6 sectors
- All IB Branch pipes installation completed
- Chimney pipes installation progress as Coils and feeder are fully installed
- OB Bundle bolting in VV Rail on 1 sectors + where previous TPTS was
- Staging work
 - (Red) ELC Coils and feeders' installation
 - (Blue) OB Bundle End of installation + metrology
 - (Blue) IB Upper Port Pipes installation
 - (Blue) OB Branch Pipes installation
 - (Blue) OB Upper Port Pipes installation



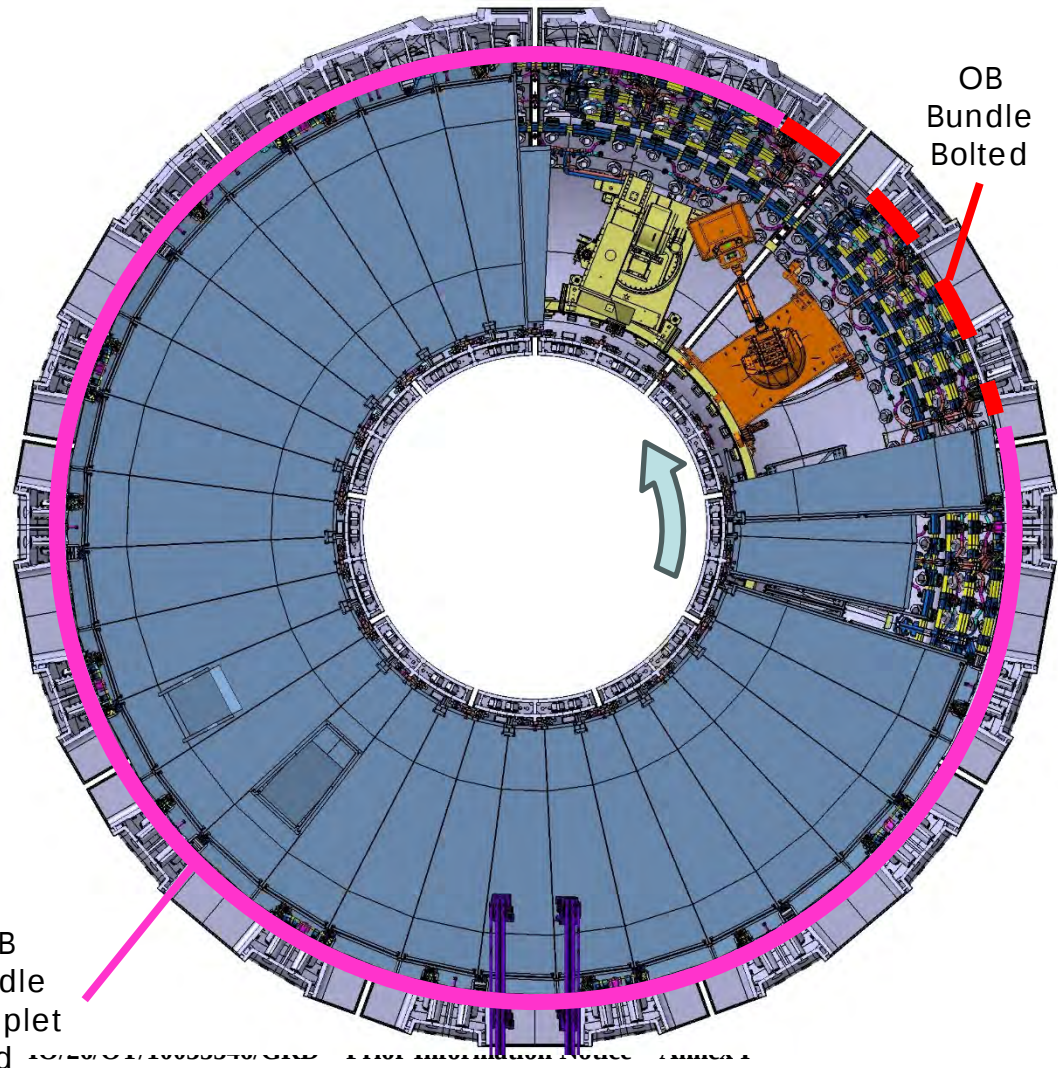
STAGE-14

- Staging installed on 4 sectors
- All IB Branch pipes installation completed
- Coils, feeder and Chimney Pipes all installed
- OB Bundle bolting in VV Rail on 1 sectors + where previous TPTS was
- Staging work
 - (Blue) OB Bundle End of installation + metrology
 - (Blue) IB Upper Port Pipes installation
 - (Blue) OB Branch Pipes installation
 - (Blue) OB Upper Port Pipes installation



STAGE-15

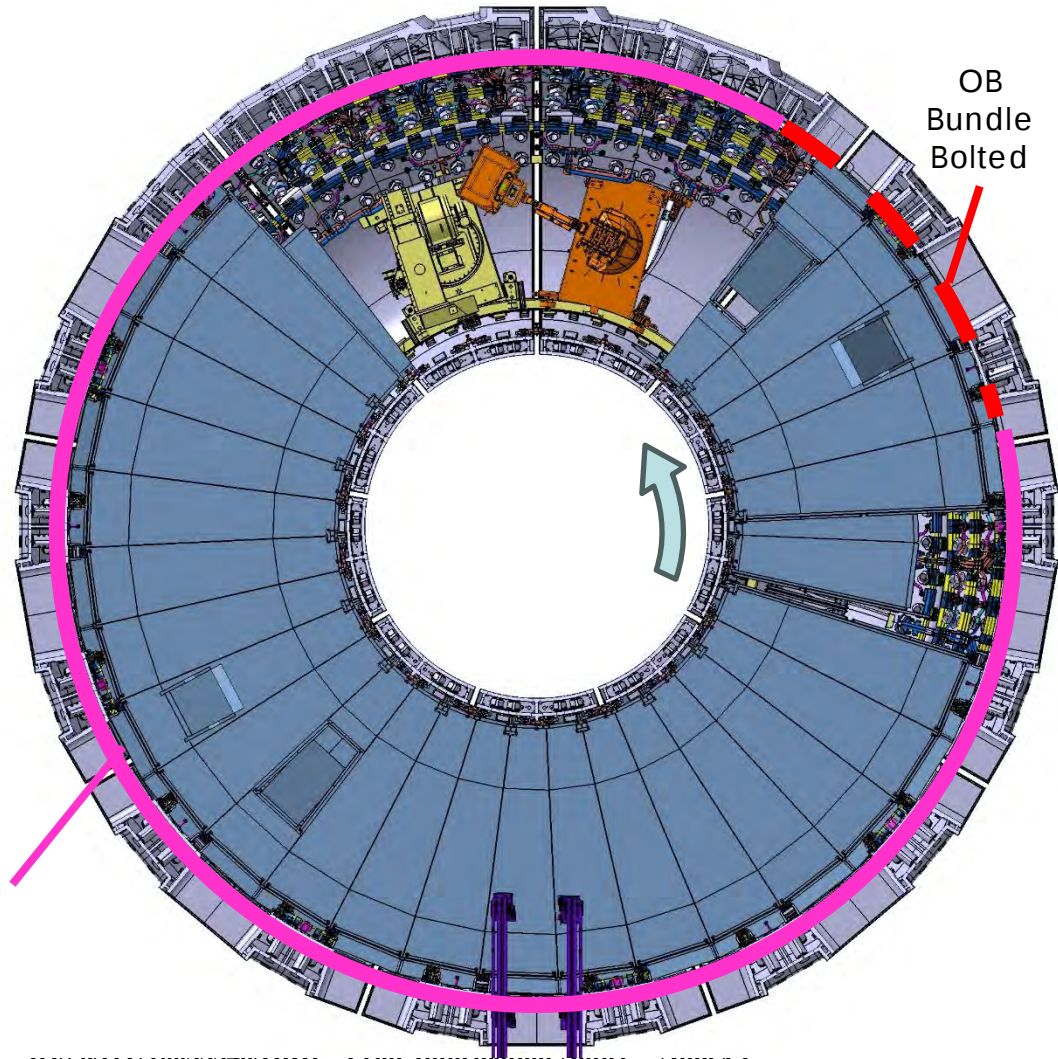
- Staging installed on 7 sectors
- IVTC and Nacelles on standby
- Staging work
 - OB Bundle End of installation + metrology
 - IB Upper Port Pipes installation
 - OB Branch Pipes installation
 - OB Upper Port Pipes installation



STAGE-16

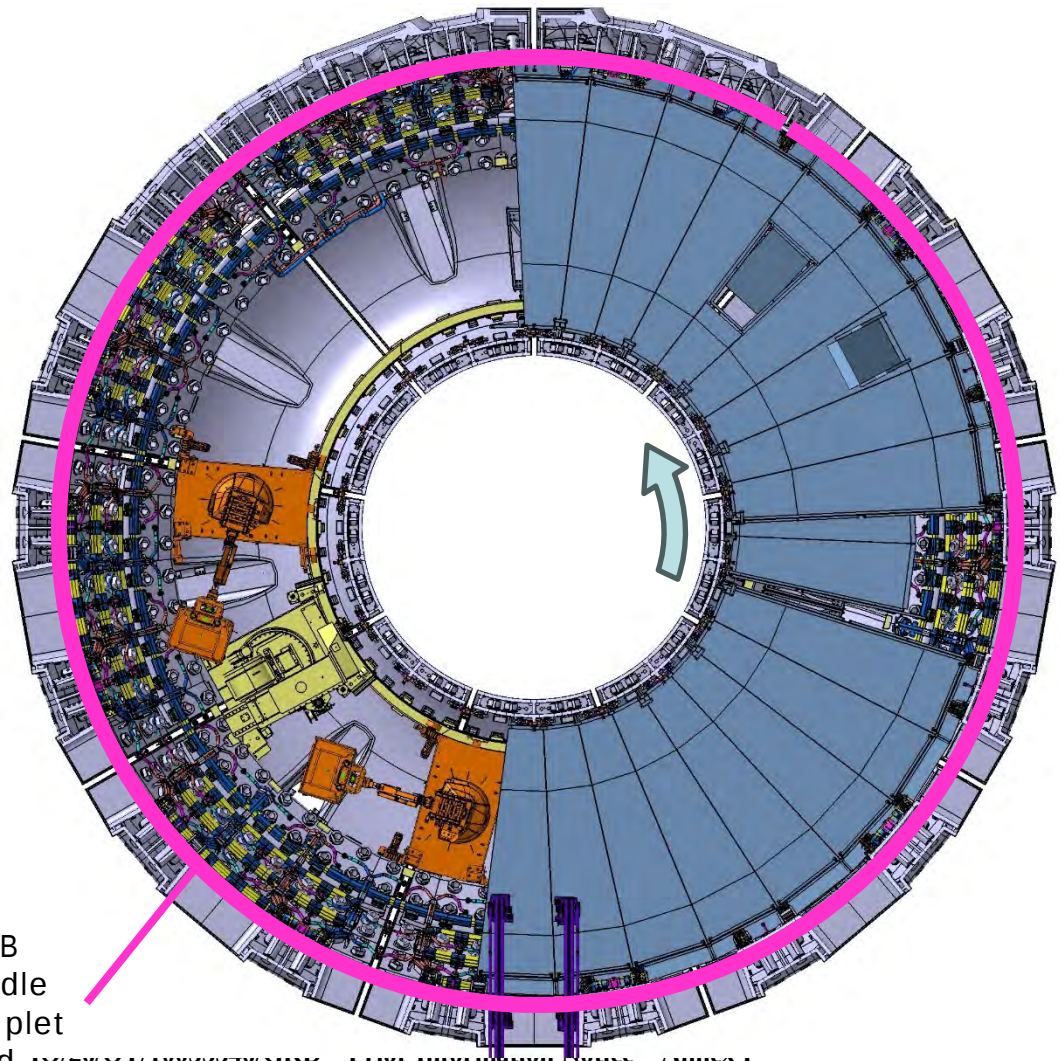
- Staging installed on 7 sectors
- IVTC and Nacelles on standby
- Staging work
 - OB Bundle End of installation + metrology
 - IB Upper Port Pipes installation
 - OB Branch Pipes installation
 - OB Upper Port Pipes installation

OB
Bundle
Comple
ed



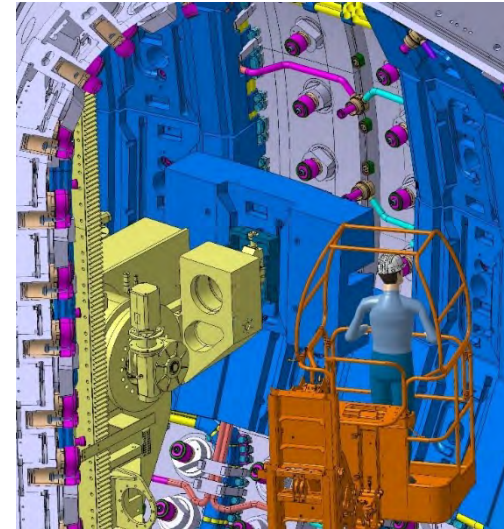
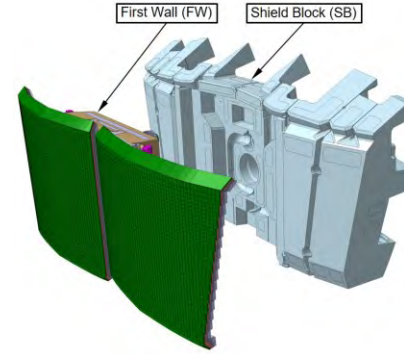
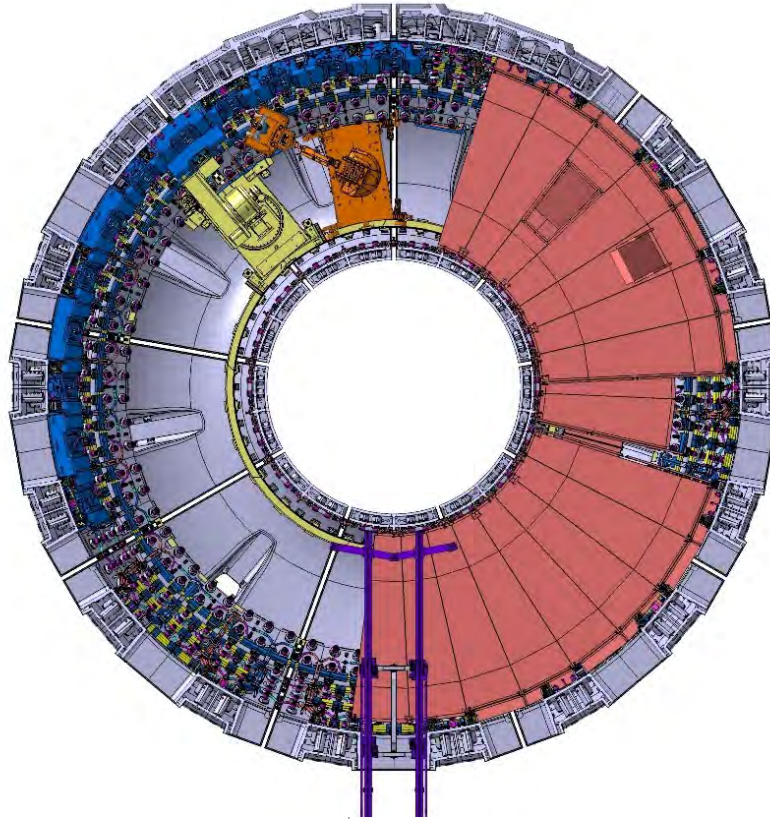
STAGE-17

- Staging installed on 5 sectors
- IVTC and Nacelles on standby
- Staging work, end of installation of:
 - OB Bundle End of installation + metrology
 - IB Upper Port Pipes installation
 - OB Branch Pipes installation
 - OB Upper Port Pipes installation

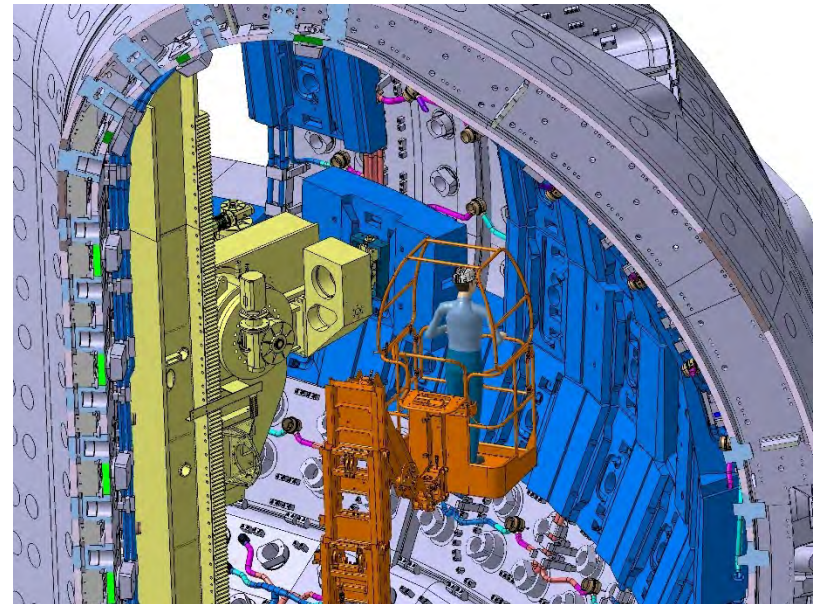
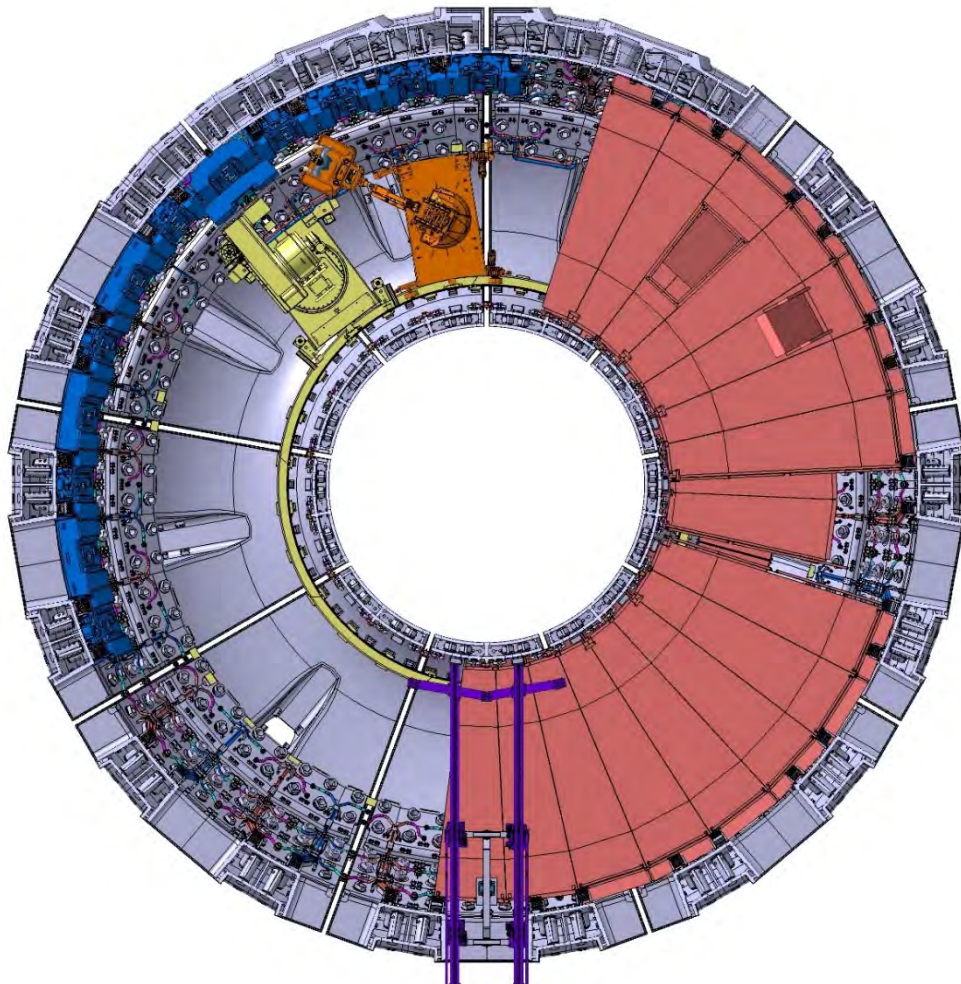


OB
Bundle
Comple
ed ~

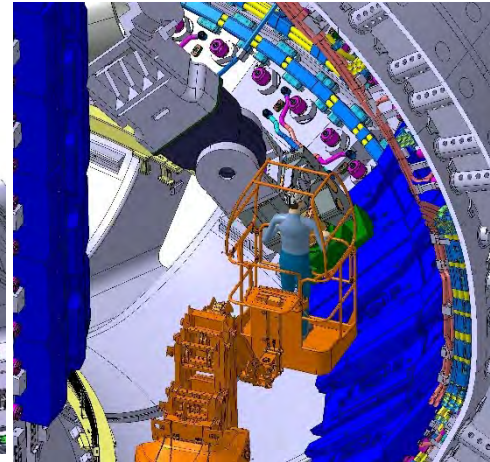
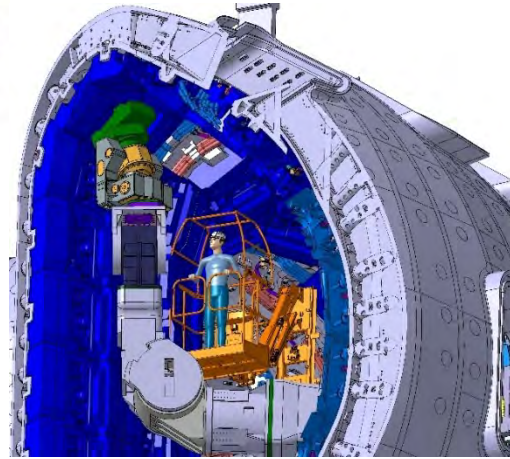
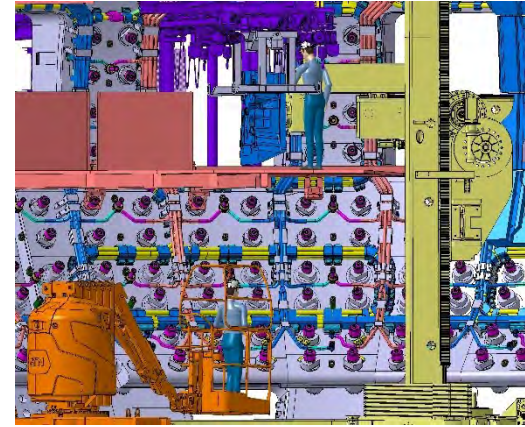
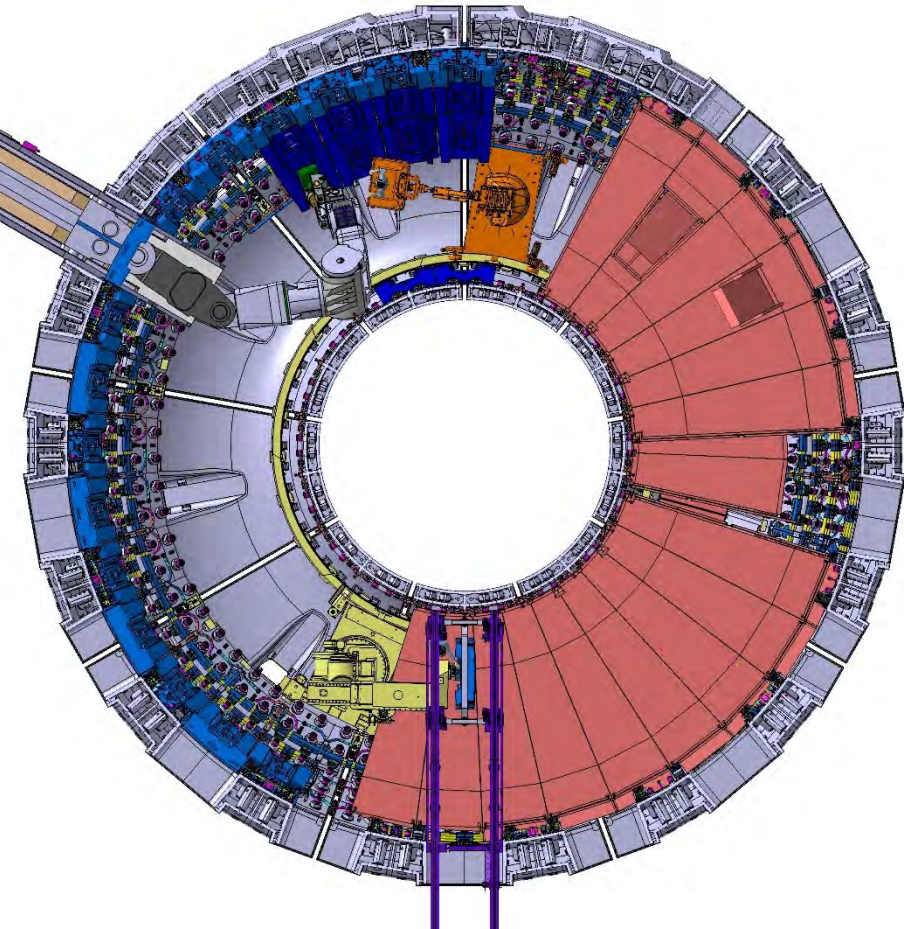
SB / FW Installation



Scene #01

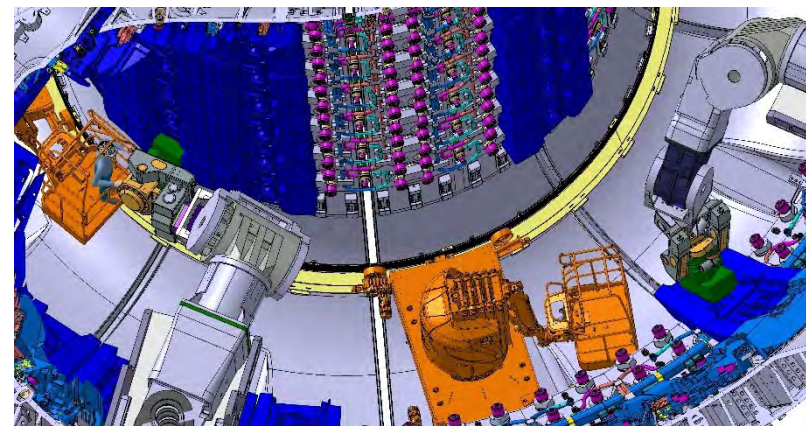
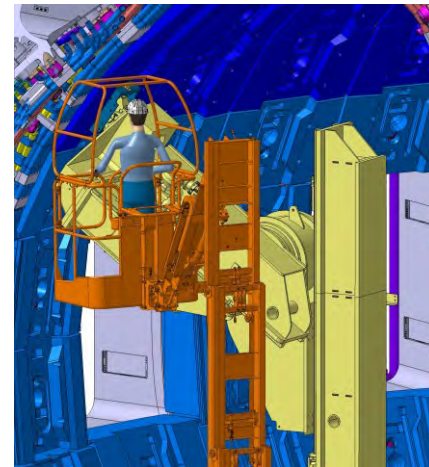
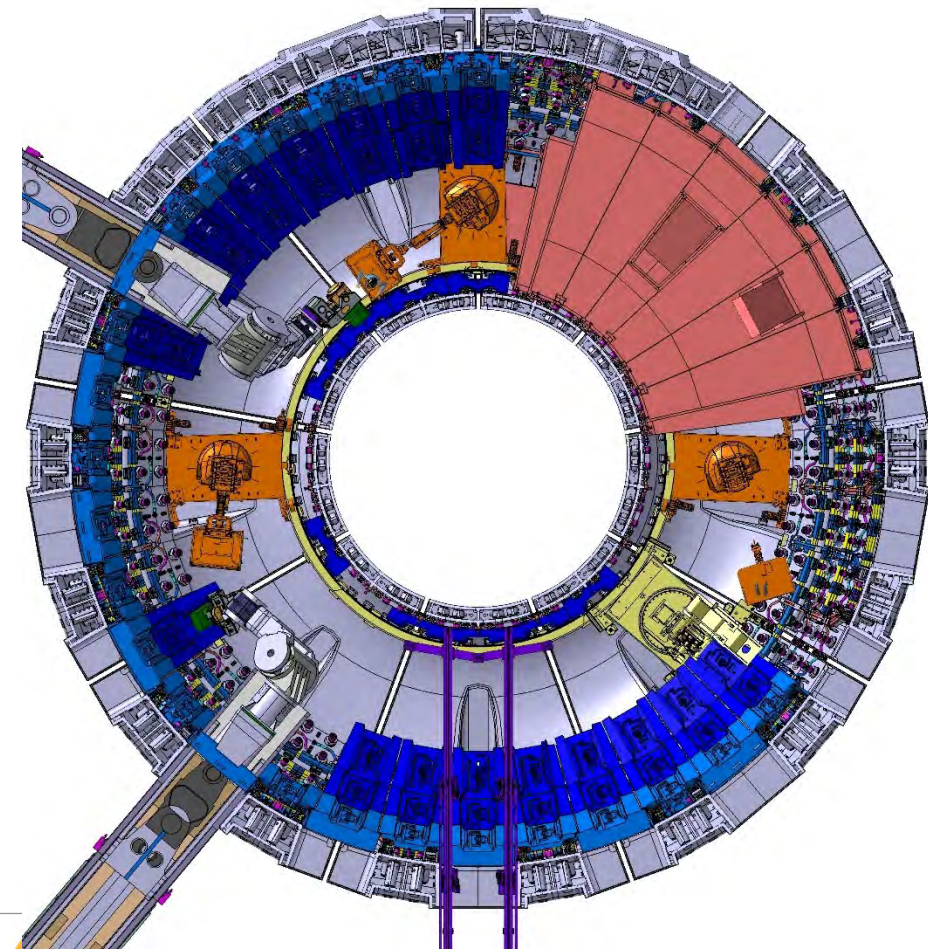


Scene #02



ITER Organization

Scene #03

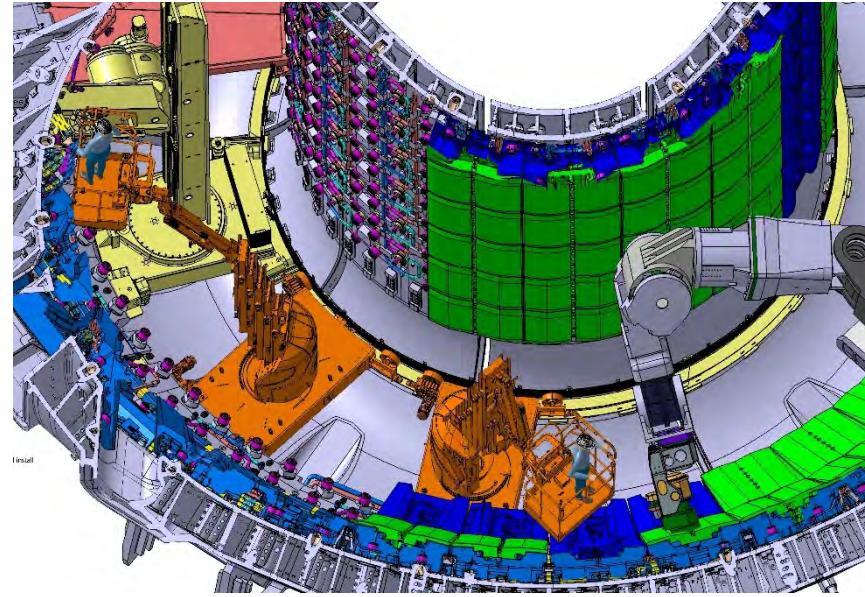
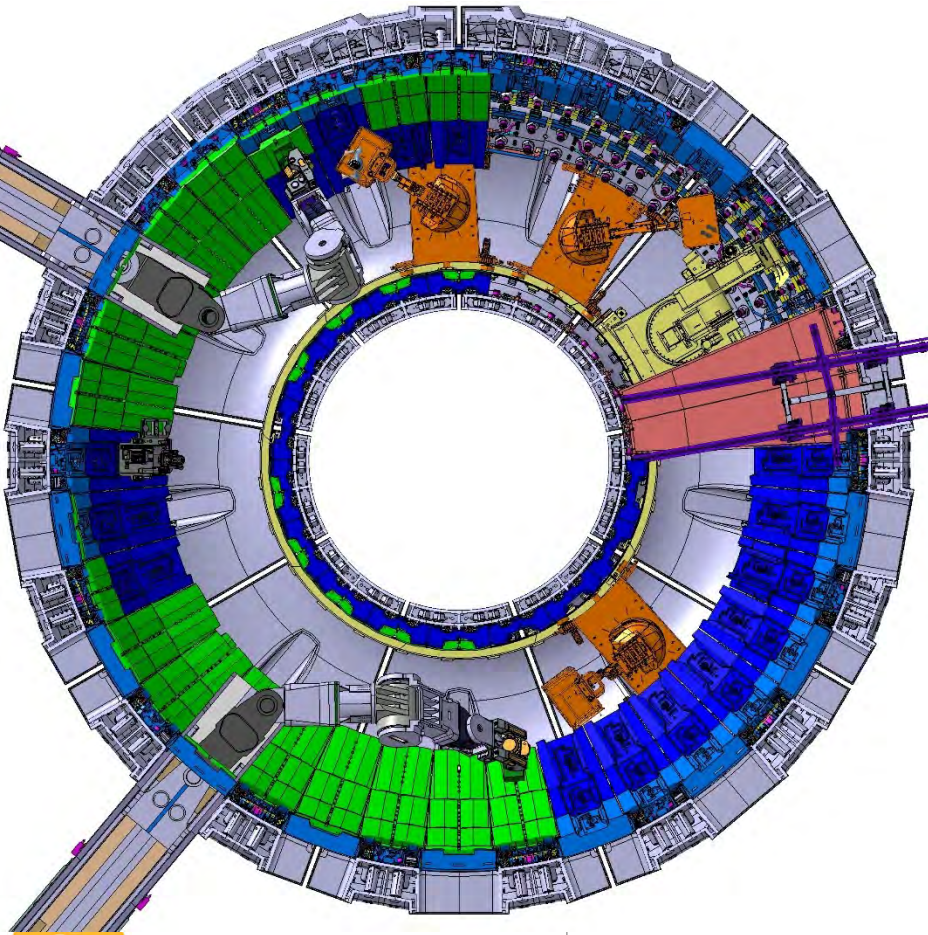


ITER Organization

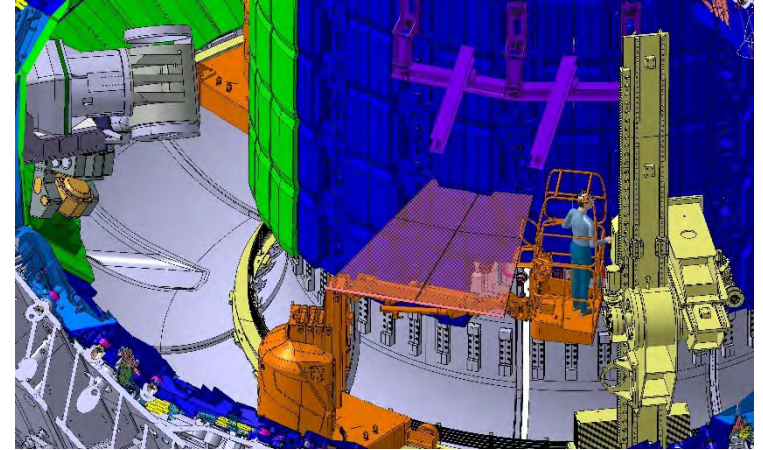
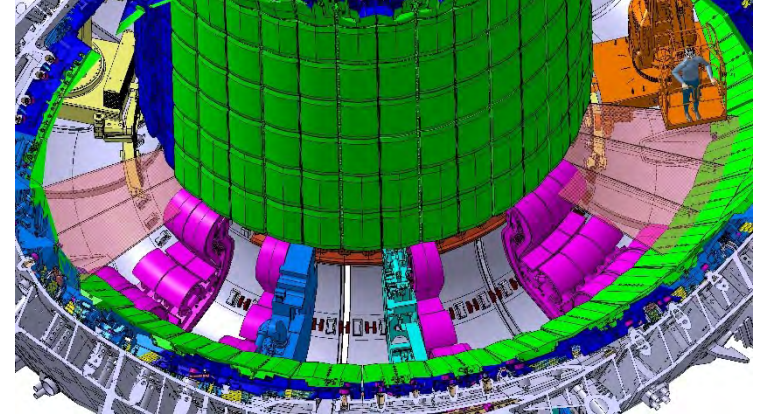
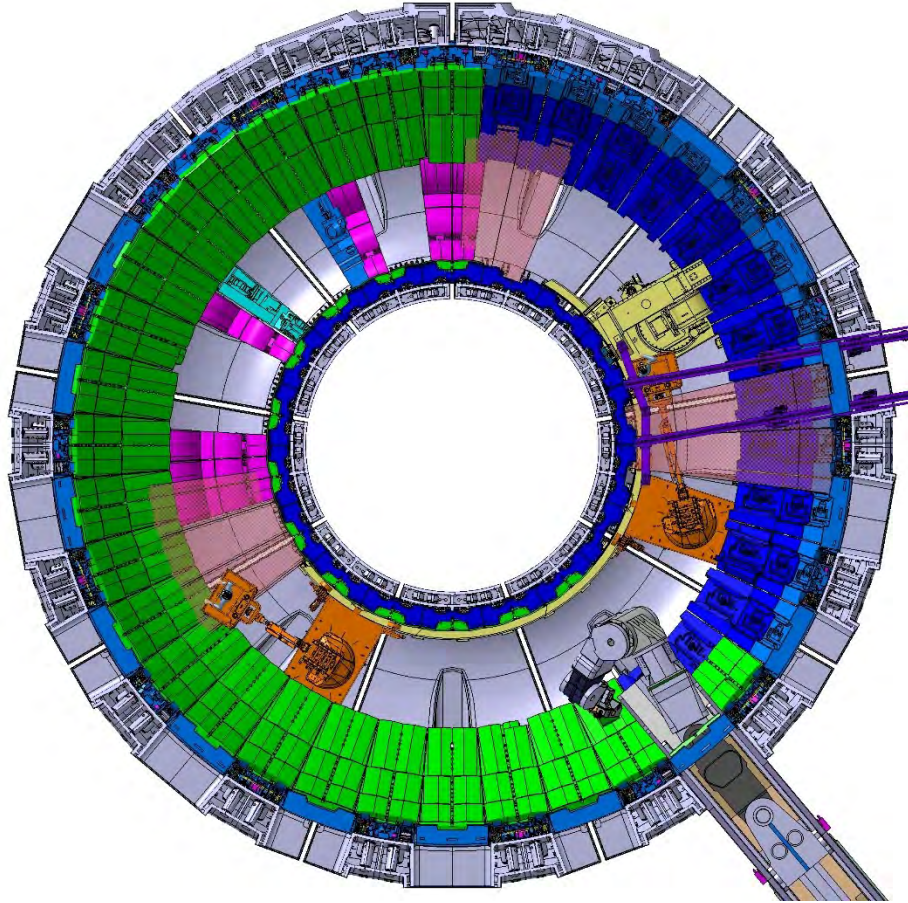
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Page 40

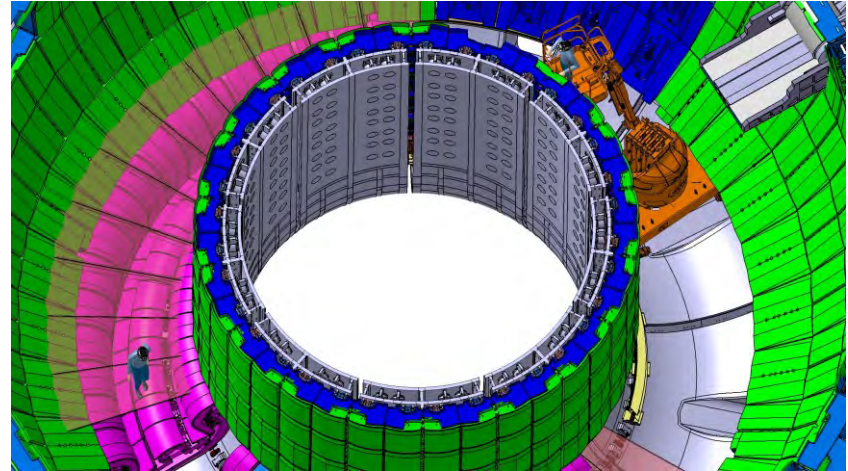
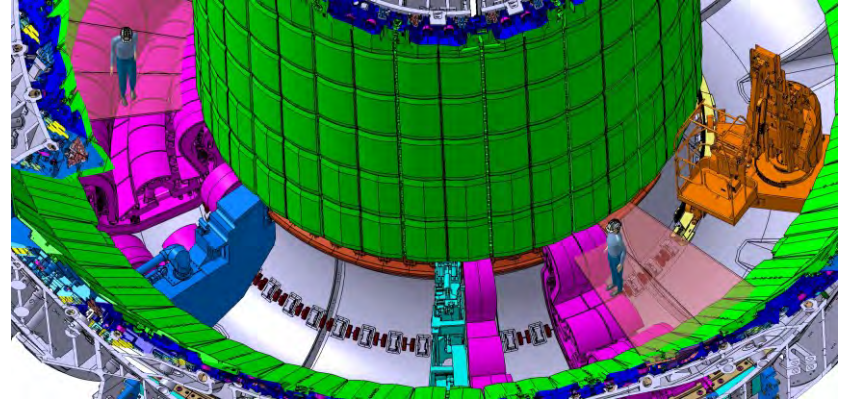
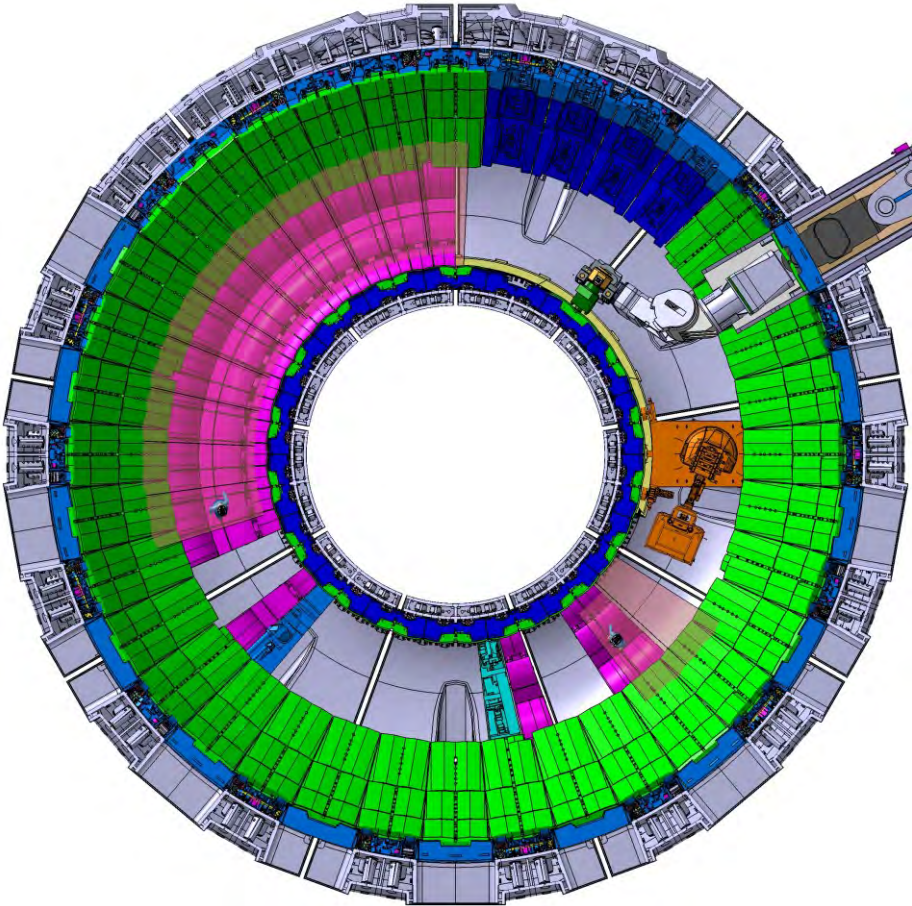
Scene #04



Scene #05



Scene #06

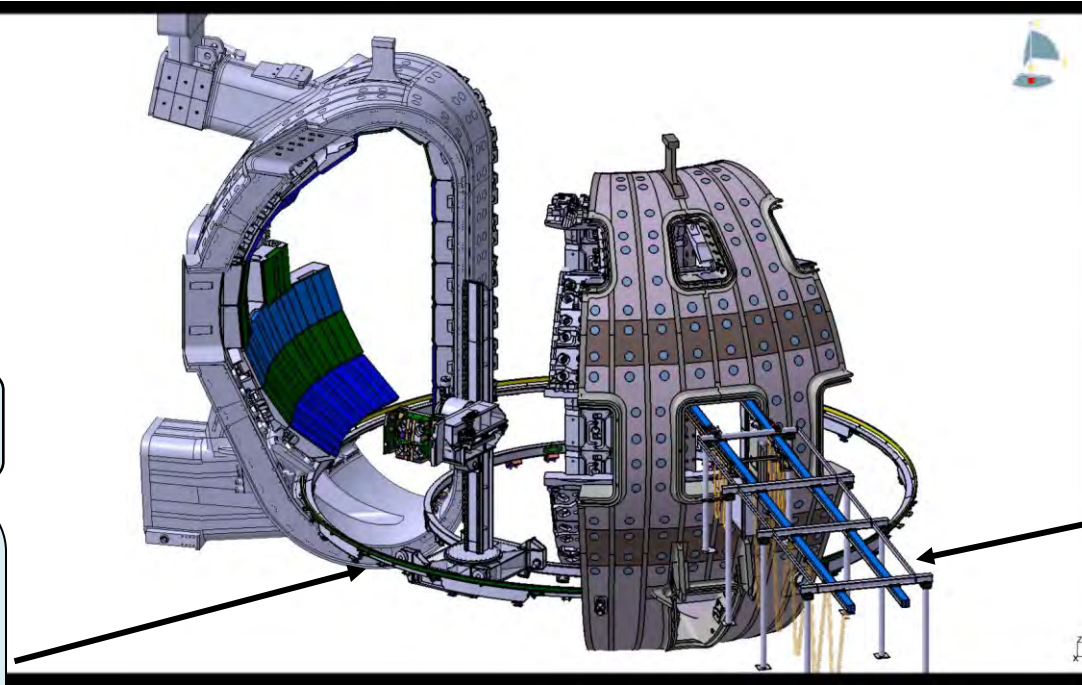


Existing Purpose-Built Tooling for A6

IVTC & TPTS for Tool / Component Transfer & Handling

2 x In-Vessel Tower Crane (IVTC)

- Remote controlled manipulator
- Handles and precisely positions in-vessel components, up to 5t, at better than 0.5mm accuracy
- Reaches any position on vacuum vessel inner wall



Through-Port Transfer System (TPTS)

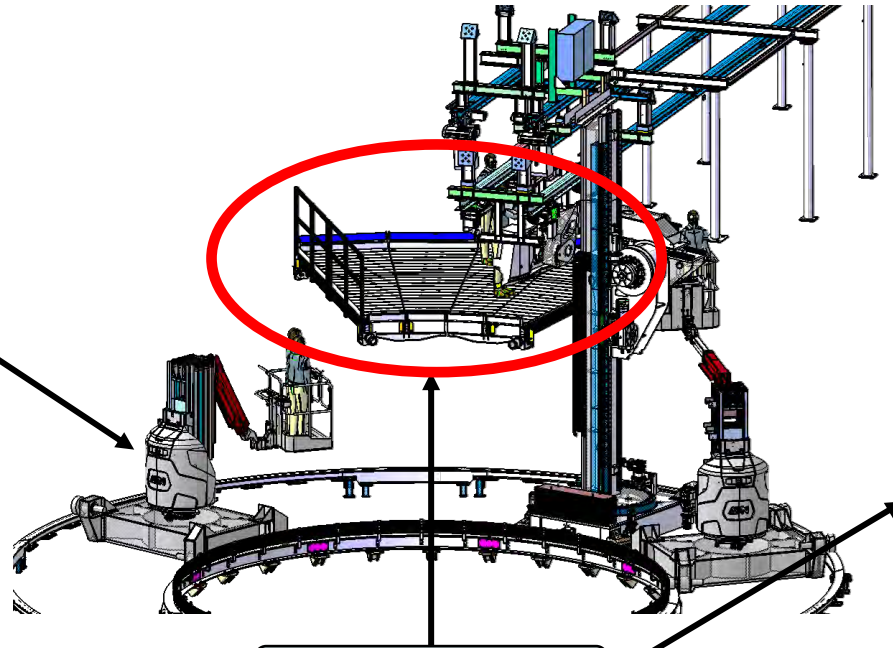
- Gantry crane-style materials handling system
- Transfers tools & components from port cell to in-vessel
- Can be installed in any regular equatorial port

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In-vessel Staging & Nacelle for Personnel Access

2 x In-Vessel Cherry Picker (MEWP)

- Electric cherry picker on custom base that can move on IVTC rails
- Basket for two personnel plus light tools
- Can reach any position in vacuum vessel volume



In-Vessel Staging

- Aluminium work platform for personnel plus light tools
- 5 levels to allow personnel to reach any position in-vessel
- Lightweight parts for fast manual handling for assembly
- Modular for flexibility in access locations
- Assembly is fully manual, from lowest level up

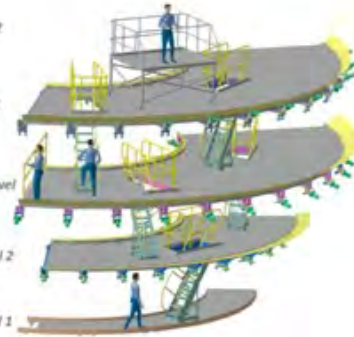
U2 - Upper Level 2

U1 - Upper Level 1

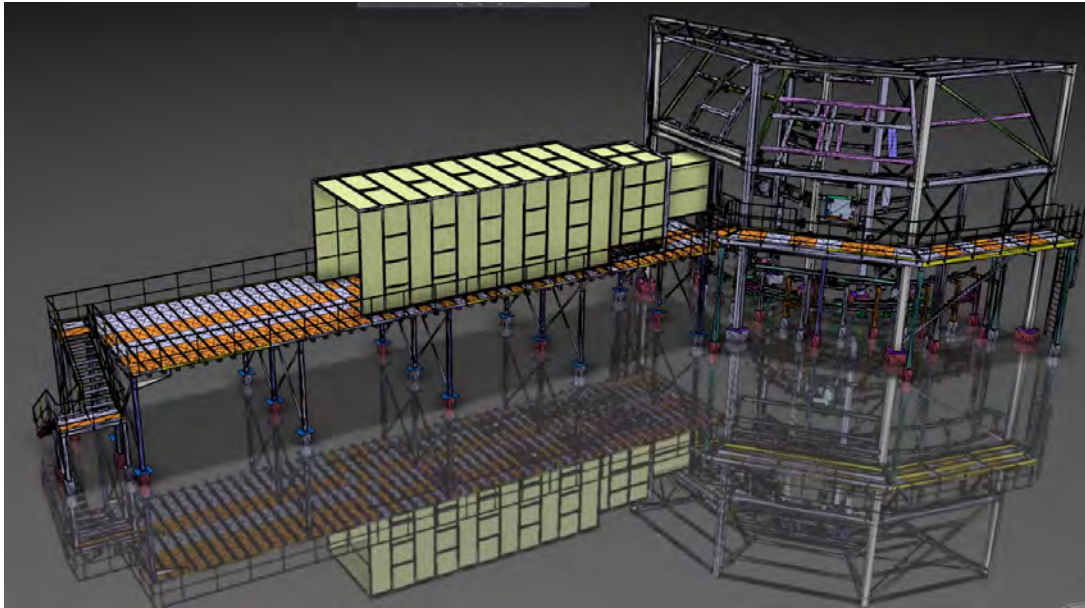
EQ - Equatorial Level

D2 - Divertor Level 2

D1 - Divertor Level 1



Trial Test & Training Facility (TTTF)



- Representative geometry of port cell, equatorial port and three VV sectors
- Recreates interfaces for component installation



Acceptance Test & Training



Equatorial ELM Coil Installation Test

Acceptance Tests & Training



EXPRESSION OF INTEREST & PIN ACKNOWLEDGEMENT

To be completed and returned by e-mail to Guillaume.Retaillaud@iter.org and **copy** Brian.Woody@iter.org no later than 16 September 2026 at the latest.

TENDER REF. **IO/26/OT/10035546/GRD**

CONTRACT TITLE: **In-Vessel Coils, Blanket and Divertor (ICBD) Systems Installation**

OFFICER IN CHARGE: **Guillaume Retaillaud - Procurement Division ITER Organization**

- ☐ WE ACKNOWLEDGE RECEIPT AND CONFIRM THAT WE HAVE READ THE PIN
- ☐ WE INTEND TO PARTICIPATE IN THE FORTHCOMING OPEN TENDER
- ☐ WE DO NOT INTEND TO PARTICIPATE IN THE FORTHCOMING OPEN TENDER

Are you registered in IProc (only entities registered in IProc will be invited to tender):

- ☐ YES, THE ENTITY IS REGISTERED IN IPROC
Please indicate your registration number:
- ☐ NO, THE ENTITY IS NOT YET REGISTERED IN IPROC BUT UNDERTAKES TO COMPLETE REGISTRATION BEFORE PUBLICATION OF THE RFP

Please list the users of ARIBA/IPROC that you wish to add as response team for this tender:

Name	E-mail
...	...

.....

Signature:

COMPANY STAMP

Name:

Position:

Tel:

E-mail

Date: