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19 Sep 2024 / 6.0 / Approved

EXTERNAL REFERENCE / VERSION

MQP Level 3

Health Protection and Safety General Coordination Plan - ITER Construction Site - Volume 0 - General Safety Rules

Titre français : Plan général de coordination sécurité protection de la santé des Travaux du site ITER - Volume 0 - Règles Générales du Chantier

Approval Process			
	Name	*Action*	*Job Title / Affiliation*
Author	**Muthuon A.**	**19 Sep 2024:signed**	**APAVE**
Co-Authors	**O'Connor N.**	**20 Sep 2024:signed**	**Quality Coordinator**
Reviewers	**Gilardi M. * Herpin S. * Schmieder L. Tardif T. van Baaren W.**	**17 Oct 2024:recommended 18 Oct 2024:recommended 09 Oct 2024:recommended 30 Sep 2024:recommended 24 Oct 2024:recommended**	**Occupational Health and Safety Offi... Project Leader F4E F4E Project Leader**
Approver	**Perrier G.**	**11 Nov 2024:approved**	**Head of Department**
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Read Access	**GG: MAC Members and Experts, AD: ITER, AD: External Collaborators, AD: External Management Advisory Board, AD: Nuclear Safety Inspectors, AD: OBS - Quality Management Division (QMD), AD: DA, AD: Auditors, AD: ITER Management Assessor, project administrator, RO, LG: [CCS] CCS-All for Ext AM, LG: [CCS...**		

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Change Log

MQP L3 Health Protection and Safety General Coordination Plan - ITER Construction Site - Volume 0 - General Safety Rules (2NUEYG)

Version	*Latest Status*	*Issue Date*	*Description of Change*
v0.0	In Work	09 Jun 2009	
v1.0	Approved	15 Oct 2009	First upload
v1.1	Signed	22 Apr 2010	Files provided the 11-02-2010 by AIF with the transmittal sheet AIF-T300-BOE-2010-0026-01 in the CD AIF-T300-BOE-2010-0024-01. The documents are uploaded with a bookmark. When French and English versions are provided, the both versions are merged in a single file with the bookmark corresponding. The French version which is the reference document is followed by the English version which is generally a courtesy translation.
v1.2	Signed	26 Jul 2010	New version.
v2.0	Signed	05 Aug 2010	New version of the Health Protection and Safety General Coordination Plan ITER Site.
v3.0	Approved	04 Oct 2010	Global revision.
v4.0	In Work	15 Nov 2011	Updated version.
v4.1	Approved	30 Nov 2011	French version added.
v5.0	Signed	02 Apr 2012	Evolution of the construction site organisation (IO responsible for the general coordination of the construction site).
v5.1	Signed	30 Jul 2012	contact list has been updated procedure list on chapter 6 has been changed with ITER reference procedure general page setup has been arranged
v5.2	Signed	03 Aug 2012	error on emergency number on the last page update of phone numbers pages presentation setup
v5.3	Signed	14 Sep 2012	The English version had been added at the end of the document
v5.4	Approved	22 Jan 2013	Table of content improvment new status of #81 & #82 Building update SCP has been added in the definition table taking into account the new entrances name Ëntrance A,B,D RTE and AIF update as they are not Building Owners anymore new RTE and SCPstatus: they are under operation several graphs improvment in particular PGC system taking into account the shuttle use and safety requirements linked to Procedure table arranged with temporary blank cell in "general requirements for IO working permits"
v5.5	Revision Required	06 Mar 2014	- ERT acronym has been added (Emergency Response Team) - It will not be possible to group the CISSCTs belonging to 2 different Building Owners - PPSPS reference has been replaced by the French version in the French part of the procedure - CA #2 has been taken into account - Deposit area belonging to CEA has been replaced by IO - Turnstile removal and I3 gate has been taken into account - major changes in #5 chapter regarding Emergency service - #6 chapter table has been updated (procedure list) within new references - Worksite parties list has been updated
v5.6	Signed	03 Jul 2014	almost of Wouter's comments have been taken into account. The French version has been removed as this document is an ITER Construction site high level document (this document is to be intended for Building Ownerships use)

v5.7	Approved	22 Sep 2014	•Section 0: the surface of the ITER Site has been increased to 110 ha on 3 March 2014 •Section 0: The soil disposal area is not in operation anymore as such and under the responsibility of CEA anymore •Section 0: Remove F4E from the definition of Building Owner, because they are not the only Building Owner on the site. •Section 1.1.4: The surface of the ITER Site has been increased to 110 ha on 3 March 2014 •Section 1.1.4 (sketch): The south storm water basin area is not shown. It is important that this is included in the sketch as being part of the ITER site under IO responsibility, because Facility Management activities occur in this area. •Section 1.1.4 (sketch): The south part of the former spoil disposal area is not yet under the responsibility of F4E. In order to avoid the need to update the document each time the responsibilities change, I would suggest simply referring to the Site Allocation Plan (G33C8T)
v6.0	Approved	19 Sep 2024	Significant update of Document. Changes include, • Now IO and F4E have a unique HSPC contract, 1 PGC, 1 CISSCT, etc. • New PGCs structure • Reference to the PGC Vol.1 for most of the site facilities description • Description of the current site zoning and Coordination Entities in charge (regarding HSPC mission) • Removal of the Environment element (now dedicated documents exist in parallel)

Contents

PREAMBLE

This document was written by ITER Organization as the General Site Coordinator. It was written to meet the requirements of the French Act No 93-1418 dated 31 December 1993 and its implementing Decree No 94-1159 dated 26 December 1994. It deals particularly with the coordination requirements between Building Owners when several Operations are undertaken in parallel on the same site, in compliance with Article L4531-3 of the French Labour Code.

It is applicable to all operations on the ITER Worksite.

The information contained in this Volume 0 of the General Safety Plan shall serve as a reference and data for all Building Owners working on the ITER worksite.
Building Owners must take this information into account when drawing up Volume 1 of the General Safety Plan so that their own contractors can draft their specific occupational health and safety plans in accordance.
Additional information may be added to this Volume 0 of the General Safety Plan, or adapted, if requested by the Site Owner in line with ITER Worksite developments.

IMPORTANT NOTE – PROJECT SITUATION IN 2024

All safety coordination measures are now contained in the single PGC Vol.1 and its annexes (see § 2.2).
https://user.iter.org/default.aspx?uid=T6V4RP

0 DEFINITIONS

- ITER Site: Area east of the Cadarache Centre with a surface area of 180 hectares, made available to the ITER Organization (IO).
- ITER Construction Site: part of the ITER Site where construction works take place.
- IO direct responsibility areas: Any area on the ITER Construction Site that is not under the responsibility of a Building Owner (example: Water treatment area).
- ITER Areas Under Operation: part of the ITER Site no longer considered as a Construction Site and now under operation by IO.
- Site Owner: ITER Organization (IO).
- Building Owner: contracting authority which manages a specific work area in the ITER Site.
- General Worksite Coordinator: ITER Organization (IO), responsible for managing the coordination of the IO direct responsibility areas and the other Building owners.

- CISSCT: Company Health and Safety Committee
- DAs: IO's Domestic Agencies (Except F4E in this document)
- ERT: Emergency Response Team
- F4E: Fusion For Energy (European Domestic Agency)
- HSPC: Health, Safety and Protection Coordinator (CSPS in French)
- IO: ITER Organization
- PGC: General Safety rules
- PPSPS: Specific Health Protection & Safety Plan
- RTE: French Electricity Transmission System Operator
- SCP: Provence Canal Company
- SCMO: Site Construction Management Office
- SLT: Safety Leadership Team
- SOCC: Site Operation Coordination Committee
- SOM: Shift Operation Management

1 GENERAL

1.1 DESCRIPTION OF OPERATION

1.1.1 General context

ITER is a project of international cooperation with the aim of scientifically and technologically demonstrating the industrial feasibility of nuclear fusion for peaceful purposes.

Due to the international aspect of this project, several different Building Owners have conducted the various operations. Their involvement requires the implementation of specific preventive measures related to their activities within the perimeters and specific areas assigned to them.

Current Building Owners on the ITER Site:

- Fusion For Energy (F4E): European DA in charge of the Construction of ITER buildings
- ITER Organization (IO): Assembly of ITER equipment
- IO DAs: Responsible for their in-kind contributions to the project (installation on-site of the equipment that they have provided).

NOTE: Except for the European DA (F4E), the DAs' Building Owner responsibility regarding the HSPC Regulations were delegated to the IO. Consequently, the IO HSPC contract also covers the Safety Coordination for all DAs' operations. (PGC Vol.1 applicable for them).

Current other main Entities present on the ITER Site:

- RTE: Owner & Operator of the 400 kV substation
- TOTAL ENR: Owner & Operator of the solar panels implemented on the ITER Site

1.1.2 Functional scope of document

This document defines the common general safety rules applicable to all Building Owners working on the ITER Worksite.

All these general safety rules shall be implemented and respected by all Building Owners and contractors intervening on the worksite. These general safety rules do not replace the special rules drafted by the HSPCs for each operation on behalf of each responsible Building Owner.

It is drafted and updated under the responsibility of the Site Owner.

1.1.3 Worksite address

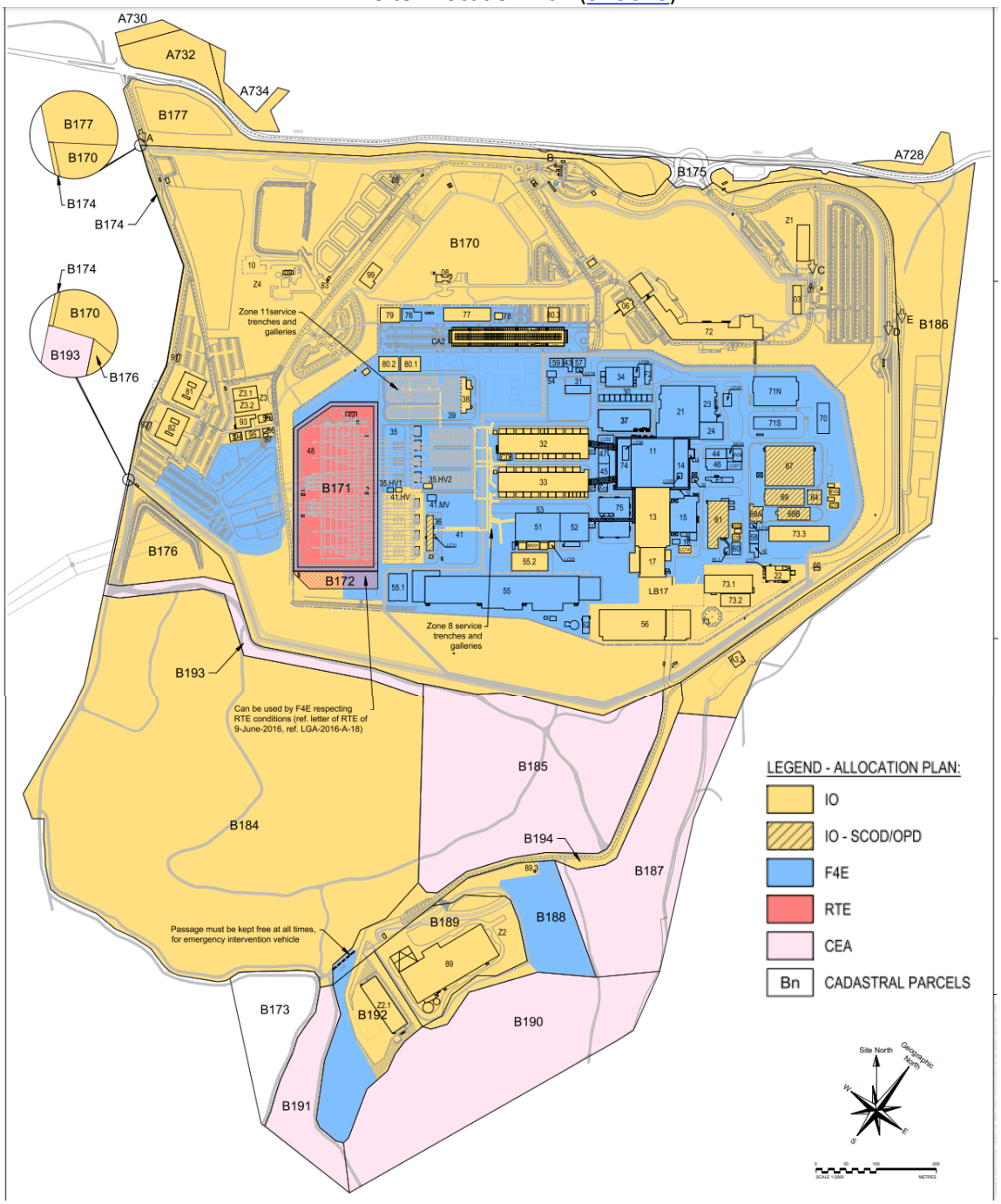
CHANTIER ITER
RD 952 – Entrée Nord
CS 80 001
13066 St Paul lez Durance cedex

1.1.4 Brief description of ITER site and worksite

The ITER Site has a surface area of approximately 110 hectares. It is located southeast of Departmental Road 952, north-east of the Cadarache Research Centre, and on the boundary of the Saint-Paul-Lez-Durance municipality.

The ITER Construction Site comprises of the area within the site boundary fence (excluding the #72 HQ Office Building area), the storm water basin located south-west of the site, and the 10-hectare soil disposal area which is located outside this fence (excluding the Z2 and Z2.1). The ITER Construction Site includes a security guard post building that controls all access.

ITER Site Allocation Plan (37U6V3)



1.1.5 Functional breakdown of ITER project works

This functional breakdown was used to reference the different volumes of the General Safety Plan for the ITER Worksite (A1, A2… B1, B2…, C1, C2…).
It is no longer used at the date of this version of the PGC Vol.0, only the Vol. C1 remains.

It was based on the project phases that can be distinguished:

Phase A : Site development
This work concerned the road & underground networks (RUN) on the site and the construction of certain structures as preparation for the main construction phase.
This phase is finished.

Phase B : Construction of ITER buildings
This work concerns the construction of the licensed nuclear facility (INB), its peripheral facilities on the platform, the ITER Headquarters and the 400 kV substations.

Phase C : Equipment assembly, commissioning, and operation
This work concerns all operations involving the assembly of ITER facility equipment, their test and commissioning and even their operation inside the ITER Construction Worksite.

As the completed buildings are progressively taken over by IO, the equipment assembly starts under IO Construction Teams. Once commissioning and operation phase starts, IO Construction Team transfers the management to IO Operation Team (names of the Teams have evolved several times along with re-organizations, these are generic names).

Once the equipment process risks become the preponderant risk (compared to Construction/Assembly risks), IO as the Operator can choose to integrate parts of the Construction Site into the Area Under Operation. At this moment the applicable Regulation changes, the PGCs are no longer valid, and the IO own Safety Rules apply.

1.1.6 Site status

The ITER Site falls under the responsibility of ITER Organization, who is the Site Owner. This responsibility concerns phases B and C.

The works covered by this General Coordination Plan fall within the scope of the French Decree No 93-1418, concerning the specific measures applicable to building and civil engineering operations.

These works can be considered as being part of one overall construction project. Considering the expected duration of the works and the estimated workforce required, the works have been classified as Category 1 by the Site Owner under Article R.4532-1 of the French Labour Code.

A CISSCT per Building Owner is to be established as soon as legally required due to the state of operations.

Currently: IO and F4E decided to contract a common HSPC, with a common PGC and CISSCT. Contractual discussions and decisions regarding Health and Safety Protection Coordination and are held with both Building Owners, both Engineers and the HSPC, during concertation meetings.

1.2 PARTIES INVOLVED IN THE PROJECT

The parties involved in the project can be classified into two distinct groups:
- Parties common to the different Building Owners,
- Parties assigned to a specific Building Owner.

1.2.1 Parties common to several Building Owners

cf. IO/F4E PGC Vol. 1 for an up-to-date list: https://user.iter.org/default.aspx?uid=T6V4RP

1.2.2 Parties assigned to a specific Building Owner

The list of parties specific to each Building Owner is provided in the appendix of each Building Owner's General Coordination Plan – Vol. 1, written by their own HSPC.
See IO/F4E Vol. 1: https://user.iter.org/default.aspx?uid=T6V4RP

1.2.3 Contractors

All contractors must have valid contract signed by the Building Owner for whom they intervene on the worksite. It is the responsibility of each Building Owner to ensure works and acceptance conditions on the Worksite for every contractor under its responsibility and on its zone.

- All health and safety aspects are subject to the provisions of the French Labour Code and all contractors must therefore comply with the rules concerning:
- common inspections and PPSPS,
- the use of machines for handling purposes and lifting people, as well as working at height,
- staff training, including the training of new employees and workstation training, whether for electrical
- qualifications or operating authorizations,
- health measures and receiving personnel on site.

Contract holders will specify the line of responsibility in their PPSPS and will clearly define the safety tasks assigned to their staff.

They shall particularly ensure that:
- The PPSPS of their sub-contractors are written correctly and contain the applicable safety procedures and instructions,
- Their sub-contractors follow all safety measures including those detailed in their PPSPS,
- They use the correct sub-contracting tier-level defined by each Building Owner,
- The number of temporary workers is limited,
- Staff supervision is adequate and appropriate regarding the worksite risks,
- All personnel hold the right authorizations and qualifications,

The worksite equipment is compliant according to French terms in Regulation.
All companies must estimate their workforce early enough and communicate these figures to the Building Owner so that they may be taken into consideration for the management of the worksite.

1.2.4 Sub-contractors

All sub-contractors must follow the same safety rules as those for the companies for whom they work.

1.2.5 Visitors

All visitors must comply with the health protection & safety rules described in the current document. They must also provide all information requested by the onsite HSPC.

1.2.6 Services

The Site Owner manages the work site facilities and equipment to:

- Control site access,
- Call in emergency response teams,
- Working permits management

These services are ensured by external contractors who must follow the same regulatory requirements as those defined in this document.

1.3 INVENTORY OF HAZARDS AND CONSTRAINTS

The work-related hazards are all those of a complex building and civil engineering project involving several different worksites spread out over a large area and over time. Furthermore, some zones will be changing from the worksite phase into an operational phase during phase B, which changes the nature of the risks involved.

The potential sources of hazards have been classified into three distinct categories:

- ITER Site-related hazards to which all parties are exposed,
- Hazards generated by contractors to which the said contractors are exposed,
- Hazards generated by contractors to which other parties are exposed.

The HSPC is informed of these hazards and will integrate them into the PGC. These aspects are discussed during common inspections and supported by appropriate preventive measures in the PPSPS.

A specific inventory of these hazards and constraints is given in the different PGCs. The HSPC under each Building Owner is responsible for informing the different parties so they can integrate these hazards into their PPSPS which should be developed from the ITER template (ITER_D_K7C6SZ).

2 GENERAL ORGANIZATION AND COORDINATION MEASURES

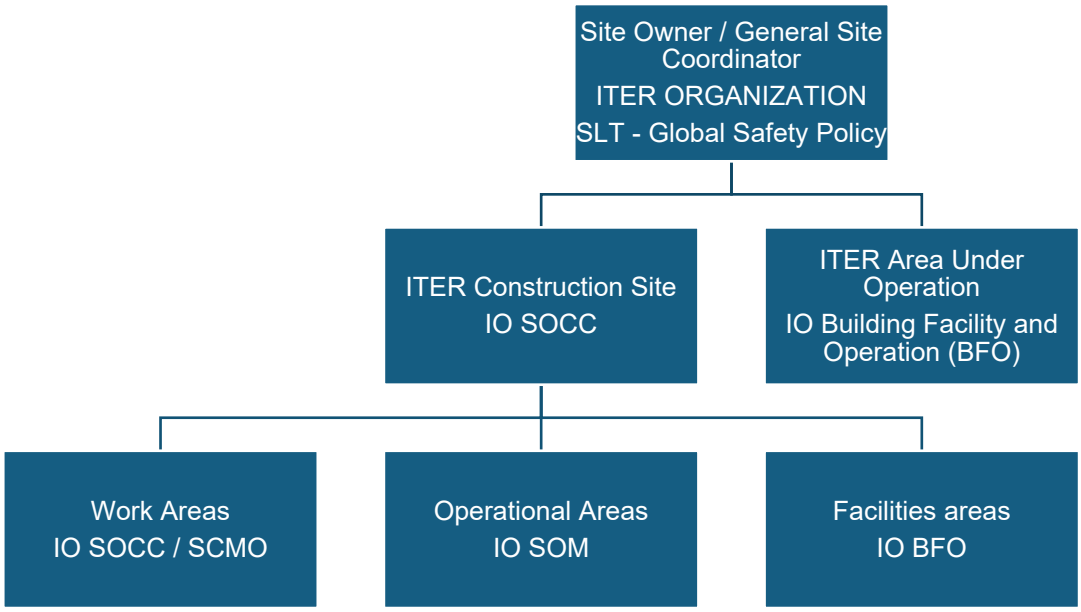
2.1 GENERAL ORGANIZATION FOR SITE COORDINATION

2.1.1 Organization

The entire worksite falls under the responsibility of the Site Owner ITER Organization (IO). ITER Organization ensures that all Building Owners, as well as the representatives of operational structures, meet their requirements in terms of safety organization and environmental respect in their work zones.

The worksite is composed of different zones dedicated to specific works, with different stakeholders. For this reason, the Site Owner ITER Organization has the responsibility of drafting the general ITER Worksite organization and management documents and keeping them up to date in relation to ongoing site developments.

Three entities in charge of coordinating the works (current configuration)



The harmonization of safety practices on the Project led to have one single set of rules in the 3 areas that composes the ITER Construction Site : the IO/F4E PGC Vol.1 (T6V4RP) and its PGC Annexes.
(see §2.2).

2.1.2 Coordination of health and safety tasks

The safety topics regarding each of the three areas above are managed by an entity in charge, with the support of IO/SES (SEcurity and Safety) and the HSPCs of each Building owner.

The Safety Leadership Team defines the Global Safety Policy / Strategy.

The Building Owners associate the HSPC to all relevant meetings as per Art. R4532-8 of the French Labor code.

2.1.2.1 Safety Leadership Team

SLT Terms of Reference https://user.iter.org/?uid=UKNA2B

The purpose of the SLT is to enhance the Occupational Health and Safety (OHS) culture on ITER Site, for all the ITER Project site activities. The objective is to improve safety performance through direct and collective management commitments.
Its scope of works includes activities under IO, IO/CMA, F4E, ENGAGE and DAs.
The team mission applies to the construction, assembly, commissioning, and operation phases.

The SLT has the following main Missions:

- Adopt best safety practices and safety enforcement procedures.
- Attain Safety performance as per the target of Severity Rate/Frequency Rate and OHS Level 3 observations rate set at the beginning of the year by the IO Director-General.
- To promote Safety culture in the field.
- To ensure compliance with OHS and Industrial Safety regulations.
- To make ITER as an exemplary Nuclear Construction site for others to imbibe.

The SLT meets at least once a month. During the year 4 SLT tours are organized in the field.
IO/SES and the HSPC are Members of the SLT.

2.1.2.2 Site Operation Coordination Committee (SOCC)

SOCC Term of Reference https://user.iter.org/?uid=44Z46J

The purpose of SOCC is to prepare and take decisions on the coordination of the works and management of co-activities on the ITER Construction Site.
Its scope of work covers coordination and co-activity risks, opportunities, and issues.

Dealing with the issues escalated from operational worksite coordinators, it takes fully into account the items related to Safety and associated necessary actions.
It liaises closely with the SLT.

This Committee meets twice per month.
IO/SES and the HSPC are Members of the Committee.

2.1.2.3 Weekly coordination meetings

The SCMO and the SOM organize weekly coordination meetings.

BFO has no recurrent coordination meetings due to their scope (maintenance). Nevertheless, every time a project necessitates it, a dedicated coordination meeting is organized (new building, important site development…).

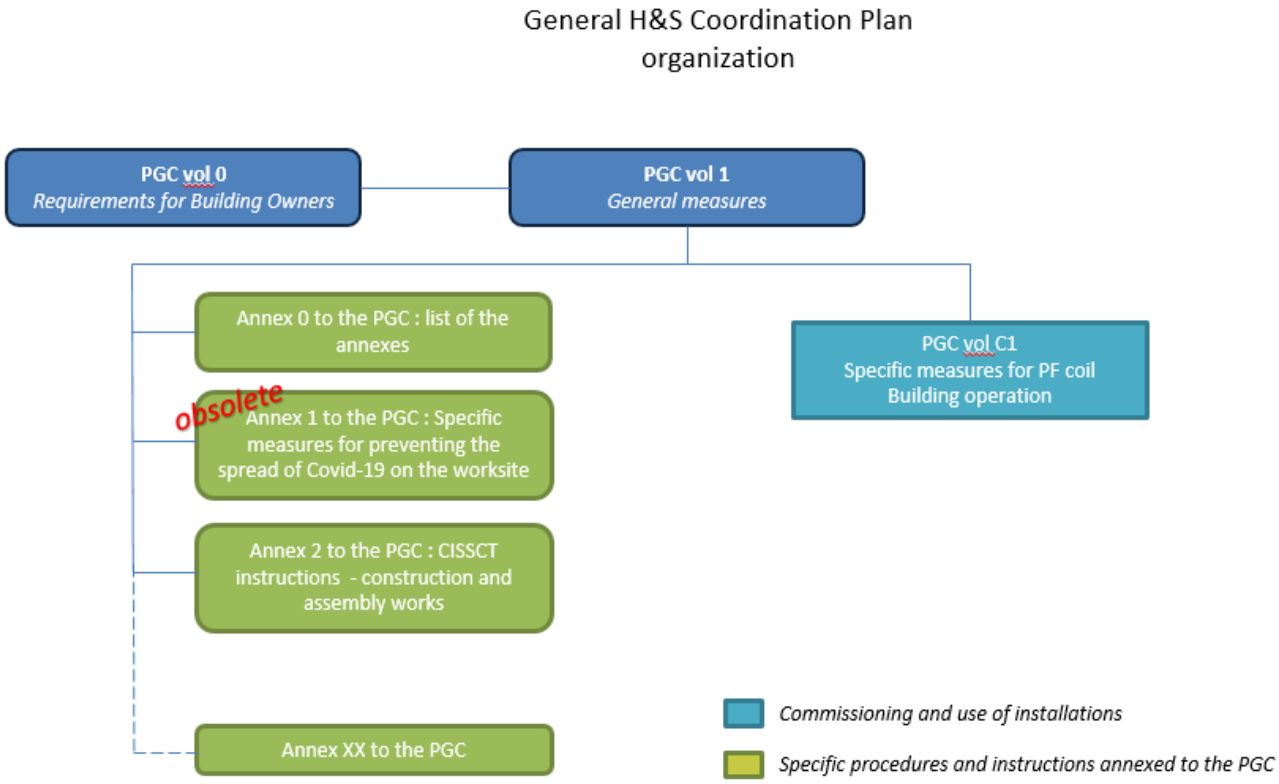
IO/SES and the HSPC are invited to the above meetings and intervene regarding topics pertaining to the Health and Safety Coordination.

2.2 ORGANIZATION OF GENERAL HEALTH & SAFETY COORDINATION PLANS

Initially, the HSPC missions and documents were built with the following architecture:

- PGC Vol.0 applicable to all Building Owners and HSPCs
    - One PGC Vol.1 per Building Owner
        - Sub-PGCs per Operation, named according to the project phase (A, B or C). See § 1.1.5.

As the Project progresses, the need of such architecture becomes less necessary and the strategy is to have a single HSPC document, with annexes on more precise H&S topics. Below is the current organization.



Considering the size of the ITER Worksite, the interfaces and the numerous contractors involved, several common organization and safety principles have been defined. They are applicable to all Building Owners in the form of rules, which are listed below. These rules shall be integrated into Volume 1 of the PGC pertaining to each Building Owner:

R1. Compliance with and application of the common General Safety Rules applicable to all parties as defined in this document.

R2. Each Building Owner will manage its closed and independent worksite with its own organization and safety rules in accordance with the present document.

R3. All site accesses are controlled and the speed limits for traffic using the common ITER Worksite roads must be respected.

R4. Physical separation of HQ office areas (Building 72…) and other Areas under Operation with its own site access and rules.

R5. Regulated implementation of offices and contractor's quarters in their closed and independent worksite or in Contractor's Areas, to be controlled by each Building Owner.

R6. Joint organization for alerts and emergency response services according to the general worksite procedure defined by the Site Owner.

R7. Training of new arrivals with regards to the safety & environmental rules applicable on site, to be ensured by HSPC.

R8. Availability of changing-rooms, bathrooms, canteen, medical unit, and associated services ensured by the Site Owner within the capacity limits of Contractor's Areas.

R9. Centralized operation of all hydraulic and electrical networks shared on the site ensured by the Site Owner. Any connection or interference with these networks must be authorized according to the applicable procedures cited in this PGC.

R10. Before starting any work in the IO direct responsibility areas or within the interface areas, each contractor must participate in a kick off meeting according to the applicable procedure specified within the current document in this PGC. This especially aims at checking and recording the interfaces created outside the specific work area, as well as any constraints and logistical requirements as described in the ITER Site Permit to Work Overarching Procedure (ITER_D_3E8289)

R11. Storage and management of excavation spoil in compliance with the general procedure managed by ITER Organization who is responsible for operating the soil disposal area.

R13. The cost for the use of common worksite services (waste, cleaning / maintenance of common zones, …) is shared between the Building Owners on a pro-rata basis.

2.3 SITE ACCESS

Cf. IO/F4E PGC Vol.1 https://user.iter.org/default.aspx?uid=T6V4RP

2.4 WORK ZONES

Cf. IO/F4E PGC Vol.1 https://user.iter.org/default.aspx?uid=T6V4RP

2.5 CONSTRUCTION SITE OFFICE AREA

Cf. IO/F4E PGC Vol.1 https://user.iter.org/default.aspx?uid=T6V4RP

3 EMERGENCY RESPONSE SERVICES

Cf. IO/F4E PGC Vol.1 https://user.iter.org/default.aspx?uid=T6V4RP
For organization of emergency services as well as instructions in case of accident, alert, etc.

4 APPLICABLE PROCEDURES ON THE CONSTRUCTION SITE

The list of main documents applicable on the worksite that are related to the current document are:

[1]	IO-F4E PGC Vol.1	T6V4RP
[2]	IO-F4E PGC Vol.1 Annexes, listed in the IDM Folder Including in particular: Rules of cooperation between HSPC and Contractors CISSCT Regulation Overarching PTW procedure Thunderstorm – Safety instructions Emergency Alert procedure Procedure for management of incidents Organization of newcomer safety induction	K7KTRA
[3]	General Management Specification for Executing Entities at the ITER Site	YX55YY
[4]	ITER Site access Procedure	S3893D
[5]	General Emergency Procedure	T24NPG
[6]	ITER Site – Plan for Internal Regulations	3XWZL6
[7]	How to access the ITER Platform	X9WVHB
[8]	How to request access to and within the ITER site	WRWQRG
[9]	ITER Internal Regulations	27WDZW