Security, Health and Safety induction training

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Security, Health and Safety division
SUMMARY

Presentation of ITER Occupational Health and Security approach:

**Safety**
- Purpose and scope
- Emergency response
- General safety requirements
- Prevention plan

**Security**
- Purpose and scope
- Rules to respect
- Opening Hours
- Site access requests
Safety and Security at ITER

Safety and Security are a **top priority** for ITER: for the project, its staff and workers on site, the local population and the environment.

ITER Safety and Security processes will comply with **French regulations** according to Article 14 of the ITER Agreement.

*Article 14*

Public Health, Safety, Licensing and Environmental Protection

The ITER Organization shall observe applicable national laws and regulations of the Host State in the fields of public and occupational health and safety, nuclear safety, radiation protection, licensing, nuclear substances, environmental protection and protection from acts of malevolence.
Safety and Security Induction Training

Occupational SAFETY

Purpose

• “The achievement of proper operating conditions, prevention of accidents or mitigation of accident consequences, resulting in protection of workers, the public and the environment.”

Scope

• Health and safety procedures
• Safety trainings
• Work inspections...

HS Team

• Buildings: Martine Carpophore – Cui Qiu
• Construction site: Matteo Gilardi – Cao Qin
Walkpath

Yellow dotted line indicates limit of access

Do not enter worksite or CA2 parking
Bicycle and walkpath

Figure 1 – Mandatory cycle route
Safety and Security Induction Training
SAFETY: signs and colours

- Interdiction
- Means to fight Fire
- Warning
- Absence of Danger
- Evacuation
- Indication or Instruction
- Obligation
- Compulsory
SAFETY: slips, trips and falls

The most frequent incident in ITER site

- Keep the area of work tidy
- Eyes on path while walking
- Reports evident slips trip hazards through a safety ticket
- Higher awareness at night time poorer visibility
- Hold the handrails while climbing up a stairway
Inherent risks of ITER Organization

Fire Risk

- Avoid combustible build up (paper in office, ...)
- Avoid overloading power sockets
- Observe smoking policy
- Hot work requires a Fire permit, Obey the Instructions for Hot Work (64GPGM).

Electrical Hazards

- It is forbidden to work on equipment with unprotected live wires.
- Do not intervene if you don’t have specific clearance and work authorization signed by the OHC representative
- Electrical safety Procedures
- ITER Isolation, lock-Out Tag-Out Instruction

Traffic

- Respect the French Highway Code and the specific traffic instructions on the site.
- Keep traffic and worker access routes clear of any obstructions for emergencies.
- Observe the speed limits (30 Km/h and 50Km/h) and signs.
- Road traffic & parking regulations
Inherent risks of ITER Organization

**Forest fire**
- Respect the Smoking Policy.
- Schedule works according to the fire alert level (Orange, Red or Black).

**Wildlife hazard**
- Don't get close to animals (boars, wasps...).
- Don't feed any animals.
- Inform the Command Post in the event of a hazardous situation concerning an animal.

**Earthquake**
- Inside buildings: get close to a wall, a support column or under solid furniture, move away from windows.
- Outside buildings: do not stay under power lines or under what may collapse.
- In a car: stop and stay in the car until the end of shaking.
- Protect your head with your arms.
- Be vigilant, after the first earthquake, aftershocks may occur. They are of lesser magnitude but can be destructive.
Inherent risks of ITER Organization

Two levels of storm alert:

<table>
<thead>
<tr>
<th>Type of alert</th>
<th>Broadcast</th>
<th>Meaning</th>
<th>Recommended action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange alert</td>
<td>Outside buildings.</td>
<td>Lightning strikes within a radius of 20km.</td>
<td>Inside buildings: no action. Outside buildings: get ready to leave your workstation safely.</td>
</tr>
<tr>
<td>Red alert</td>
<td>Inside and outside buildings.</td>
<td>Lightning strikes within a radius of 5km.</td>
<td>Stay inside the building until the end of the alert. Stop any outside activities immediately. Go to the nearest building.</td>
</tr>
</tbody>
</table>
SAFETY: in case of PUI/PPI

- **PUI: Plan d’Urgence Interne (Internal Emergency Plan)**

  => under construction for IO

  = Nuclear site related accident

  **Siren test:** every Thursday at 1.00 pm

- **PPI: Plan Particulier d’Intervention**

  = Nuclear incidents with off site impact

  = Alert for people living in the surrounding villages

  **Siren test:** every first Wednesday of each month at 12.00
SAFETY: in case of PUI/PPI

- Reach enclosed building
- Stay in office unless otherwise advised
- Shut windows (and ventilation)
- No phone used except for emergency related calls
- Reach entrance when asked to do so
- Boarding point

UNDER NO CIRCUMSTANCES SHALL EVACUATION BE PERFORMED WITH PRIVATE VEHICLES
Safety tickets

A safety ticket system exists with the aim of reporting safety deviations. To create a safety ticket follow the steps below:

1. Click on "My Area" and choose "Ticket System".
2. Click on "Safety Tickets".
3. Click on "Add Ticket".
SAFETY: incident/accident reporting

An immediate reporting is requested in case of accident
As long as the event hinders completion of a task and may/has cause injury, illness, or property damage.

An accident report form shall be submitted to your manager and SQS in the next 24H.

Reporting Accidents & Near-Misses instruction (32BNUE) and Incident Report Form (3QNA5F)

Prefer Safety Tickets for near miss or dangerous occurrence (work-related event during which injury, ill health, or fatality could have occurred, but didn’t actually occur)
SAFETY: Contractors regulations

• Contractors must work in compliance with Internal Regulations
• They shall observe the contractors safety management procedure(3N8ZN7) where the prevention plan process is explained:

“The prevention plan is a written document aiming to ensure the control of hazards in relation with works executed by an external company.”

• It shall be established in the event of work 400 working hours or dangerous works

• Consist in:
  - inspection of the location where the activity will take place;
  - risk analysis and prevention means needed.
SAFETY: worksite

• If required to cross the ITER work site:
  – Specific induction to follow on Buzz
    https://portal.iter.org/buzz/
  – Report any anomalies as soon as you witness them
SAFETY: Emergency response

- The Emergency Response Team (ERT) is on site;
- The nurse at the infirmary go with the ERT when needed.

CALL 04 42 17 20 00
SECURITY COMMAND POST
SAFETY: in case of an accident

• First Aid team: volunteers ITER staff members

• Two infirmaries (B06 and construction site)
  Call 04 42 17 20 00

• AED available at each entrance (automatic instructions in english)

• Incident report to complete (IDM 32BNUE)
SAFETY: medical services

The infirmary in building B06 is staffed with one nurse whose mission is:

- First aid care
- Interface with occupational doctor

Occupational medicine is provided by CEA:

- Once a year, medical visit;
- Occupational Health Description Job (fiche de poste)
- Specific access authorizations will be delivered for medical check-ups or emergencies;
SAFETY: in case of fire

Follow the instructions of “evacuation guides” and “last ones”:

- Siren triggering the alert
- Leave the building calmly. Close the doors behind you if you are the last to leave the room;
- Do not use the elevators;
- Do not return to your office to get back your personal belongings
- Get to the Assembly point
SAFETY: Emergency Response Team - Ambulance

1 ambulance armed a day by 3 qualified safety guards

Allows the coverage of every type of victim

Allows the coverage of every type of accident

Is equipped according to the same standards as the ambulance of the French fire brigades

Allows the transport of the victims
SAFETY: Emergency Response Team Patrol Vehicle

KYOTI:
Hydraulic pump: HP 100 bars X 30 l/mn
Hose with 30m of pipes
Tank: 350 l

Patrol and control

Prevention of the forest fire

First fire intervention

Destruction of insect

CCFL
Hose with 40 m of pipes
Hydraulic pump: 800 l/mn X 10 bars
Tank: 600 l
SAFETY: Emergency Response Team - Fire Vehicle

VPIO nissan
600l + 40l of foam
Pump: 1000 l/mn - 15bars
ARI
Hose: 100m of 70mm
100m of 45mm
Ladder

Fire Intervention
Cars fire
Road Cleaning
First aid

FPT Renault
3000l + 40l of emulseur
2000l/mn - 15bars
ARI
Ladder
SAFETY: ASSEMBLY POINTS

KEY:
- Infirmary
- Smoking Area
- Emergency Assembly Point
- Assembly point for external rescue

Site North
Geographic North
ITER Committee of Health and Safety

• Independent committee

• Its mission = to contribute to the protection of physical and mental health and safety of workers in ITER premises.

• You can contact them: CHS@iter.org

• See the members on Buzz
Hazard Identification & Risk Assessment:

Risk assessment (IDM_AJLQRF)

Interaction likelihood
- Almost certain
- Likely
- Possible
- Unlikely
- Rare

Consequences severity
- Minor
- Medium
- Serious
- Major
- Catastrophic

Impact of risk assessment on design flowchart:
- **Low**: no specific actions required
- **Moderate**: Identify and implement controls but no hold point in the design process
- **High**: Identify and implement controls to reduce risk before going to in-kind procurement stage
- **Critical**: Identify and implement controls to reduce risk before going to the next design phase

<table>
<thead>
<tr>
<th>Likelihood</th>
<th>Consequence</th>
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<tbody>
<tr>
<td>A</td>
<td>Moderate</td>
</tr>
<tr>
<td>B</td>
<td>Moderate</td>
</tr>
<tr>
<td>C</td>
<td>Low</td>
</tr>
<tr>
<td>D</td>
<td>Low</td>
</tr>
<tr>
<td>E</td>
<td>Low</td>
</tr>
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</table>
Main rules to respect
Security on ITER site

Purpose

Ensuring the protection of the site in order to prevent any damage to the integrity of people, of facilities and ensuring the protection of nuclear material that will be on the site.

Scope

• Protection of premises / buildings
• Protection of nuclear material
• Protection of information / data
• Protection of people
Protection of premises/buildings

The ITER Site is an International enclave under the full responsibility of the ITER Organization represented by its Director General.

IO site is guarded 7d/7, 24h/24
Protection of premises/buildings

• Access control & anti-intrusion

IO Staff is responsible of his/her visitors

Entrance & exit by proxy card readers

On IO Headquarters site to bear ITER badge is mandatory

Information are recorded.
Protection of premises/buildings

- Access control & anti-intrusion

IO and DA’s
Contractor
Visiting researchers
Collaborators
Visitors
Inspectors
Temporary

- On IO site to bear ITER badge is mandatory
Protection of Information/Data

The ITER Organization has developed a document classification system based on four levels:

- Public information
- Internal Use
- ITER Restricted
- ITER Confidential

ITER D_344KKT
ITER D_43QRVU
ITER D_44GQ5V

Ongoing
Protection of Information/Data

- These four levels are described in the Information Protection – Security Classification Policy (44GRMV).

- The designation “Public” shall apply to information produced expressly for public information or that has been through the publication procedure;

- The designation “Internal use” shall apply to information or material whose unauthorized disclosure could reasonably be expected not to cause damage to the work of ITER Organization and/or to the ITER project and/or to an individual;

- The designation “ITER Restricted” shall apply to information or material whose unauthorized disclosure could reasonably be expected to cause damage to the work of ITER Organization and/or to the ITER Project, and/or to an individual;

- The designation “ITER Confidential” shall apply to information or material whose unauthorized disclosure could reasonably be expected to cause grave damage to ITER Organization and/or to the ITER Project, and/or to an individual.
Protection of Information/Data

• These procedures apply to information **issued by** the ITER Organization as well as information **received**.

• The decision to classify is **initiated by the Author**
  – The author can ask advice

• Access to information is based on the **need to know principle**
## Protection of Information/Data

### MARKING

<table>
<thead>
<tr>
<th>ITER RESTRICTED</th>
<th>ITER CONFIDENTIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front cover</td>
<td></td>
</tr>
<tr>
<td>E-mail</td>
<td></td>
</tr>
<tr>
<td>Level of security classification included in the e-mail subject</td>
<td>Not authorized</td>
</tr>
</tbody>
</table>

**Front cover**
- **ITER RESTRICTED**
  - This document may be only disclosed to persons having a need-to-know

**E-mail**
- **ITER CONFIDENTIAL**
  - This document may be only disclosed to persons having a need-to-know
Main rules to respect

- The taking of photos and video is discouraged.
- No animals are allowed on the site.
- Smoking is authorized in duly designated area only
- Traffic regulations apply on site, please respect the signs.
  - Respect speed limits
  - Fasten your safety belt
  - No phone call while driving

*In case of serious violations, access cards could be confiscated.*
Security on ITER site

- Car parks

Entrance D
platform

Entrance C
visitors

HQ

Entrance B
worksite

Entrance A

81
82
Security on ITER site

Open access hours:
- Offices areas: 7.30 am to 7.30 pm
- Worksite: 5.30 am to 10.30 pm

Reception:
- Main reception, entrance C: 7.30 am to 6.00 pm
- Worksite reception, entrance B: 7.00 am to 4.00 pm
Security on ITER site

Enter on the ITER site.

- Each person who needs to come on site must have to be delivered a badge.

- Badges are issued by Reception Office under the responsibility of SD / SHS.

- Applications for passes are made by the only authorized persons according to the type of beneficiary (visitor, contractors, staff, VR...)

- Badges shall be visibly wear at any time
ITER is a sensitive site.
Site access requests are ruled by specific procedures.

**Office areas**
- Entrance A & C
- Access requests to be submitted on **ISAA**.
  - Electronic application forms
- **Deadline**
  - Midday the day before the day of arrival
- Procedure IDM IUD: 2LVDQV

**Construction site**
- Entrance B & D
- Access requests to be submitted to **worksite reception**.
  - Paper application forms
- **Deadline**
  - Midday the day before the day of arrival
- Procedure IDM IUD: 6Z6SN9

*Security on ITER site*
On-call Security

- Liaison with enforcement agencies

An ON-DUTY Security outside of Working hours.

Be kind to use it in case of Security EMERGENCY only

ON-DUTY Emergency Number 7-7 / 24-24:

+ 33 6 19 64 98 51
As a matter of conclusion

There is no efficient Safety and Security without the collaborators committed to it.

The SHS division is here to help you develop your « Safety and Security Culture ». 
Thank you for your attention