



AD Experiments

**Safety improvements in 2017 and
objectives for 2018 & LS2**

Introduction

- Thank you to all the contributor

Responsibility	General Infrastructure	Experimental Areas	ELENA
Department-Group	EN-EA	EP-UAD	BE-OP
Infrastructure & Service Coordination	AFTC	EP-UAD + AFTC	AFTC
Consolidation Program & Planning/Coordination	AFTC	EP-UAD + AFTC	N/A
YETS/LS2 Planning & Supervision	AFTC	EP-UAD	BE-OP + BE-ABP + AFTC
Safety	EN-DSO	EP-DSO	BE-DSO
Master-Plan Management	AFTC	EP-UAD + AFTC	BE-OP + BE-ABP + AFTC

Outline

I. Incident & Evacuation drill

1. Incidents / Accidents
2. Evacuation drill
3. Lesson learnt

II. Improvement in 2017 & Objective for 2018-LS2

1. Experiment side
2. Building side
3. Objectives 2018-LS2

III. Reminder

1. Evacuation path
2. Transport

Accidents

- Finger cut with a scalpel
- Finger burnt with cryogenic fluid (He)

Incidents

- Guides without operational dosimeter
- A barrier fell on the visitor path
- 200Bar gas bottles moved with sling(s) using the crane
- People walking on the crane



Safety deviations

- Removal of a RP fence
- Beam sent in the experimental area without the beam permit fully approved
- Error on lockout procedure

Since 2012

- Electrification
- Loads fell
- Caps flying over the experiment
- Pregnant woman on the visitor path
- ...

Evacuation drill

- 1st exercise in the building
- Occasion to:
 - Update the evacuation path
 - Take a picture of the situation in case of real evacuation
 - Train emergency guides



Lesson learnt

- People did not evacuate
- People did not reach the assembly point or stay there
 - Go to their office (B.93)
 - Stay in the ramp
- Sound of the sirens not loud enough
- Evacuation path not really clear



Outline

I. Incident & Evacuation drill

1. Incidents / Accidents
2. Evacuation drill
3. Lesson learnt

II. Improvement in 2017 & Objective for 2018-LS2

1. Experiment side
2. Building side
3. Objectives 2018-LS2

III. Reminder

1. Evacuation path
2. Transport

Experiment side

- New AUL network
- Relocation of the Fire extinguishers
- New laser interlock system (collaboration with BE-ICS)
 - For ATRAP in 2017
 - For GBAR in 2018
- Implementation of the Safety Permit Strategy
- New experiment: GBAR
 - Radiation leak on the bunker (fully recover)
 - Presentation to the authorities
 - No impact on the other experiments



Building side

- New evacuation path EDMS
- New evacuation alarm
- New AUG position and modification of the chains
- New emergency lights
- Creation of a new IMPACT facility
- New defibrillator

Objective 2018 & LS2

- Fire detection
- Validation of the new evacuation system
- Laser interlock system
 - AEgIS
 - ASACUSA
- Creation of a new AD hall training
 - Generic course for the hall
 - Access / Guide / Visitor
 - Hazards identification and location
- New electrical course HxBx in classroom (3hours)
 - For the CERN users community

Outline

I. Incident & Evacuation drill

1. Incidents / Accidents
2. Evacuation drill
3. Lesson learnt

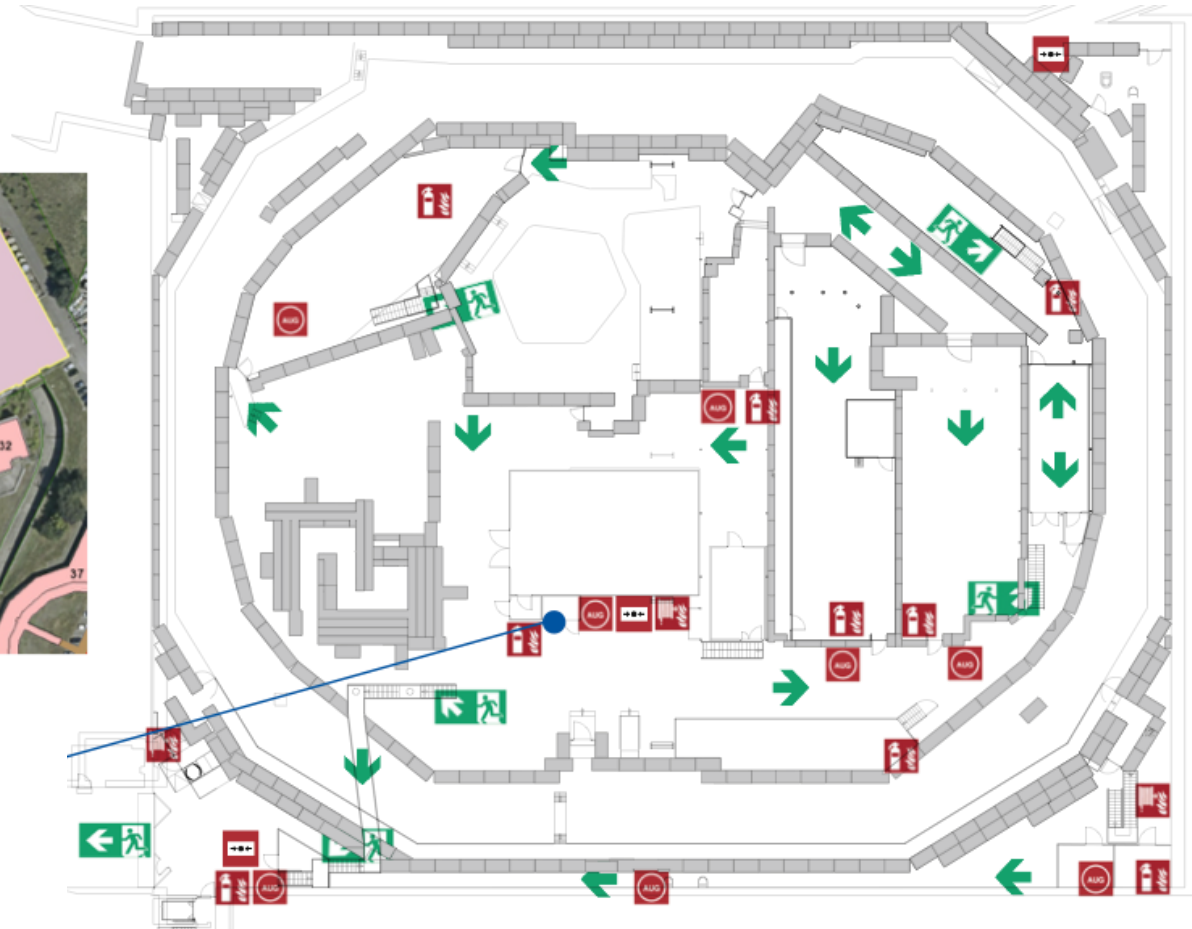
II. Improvement in 2017 & Objective for 2018-LS2

1. Experiment side
2. Building side
3. Objectives 2018-LS2

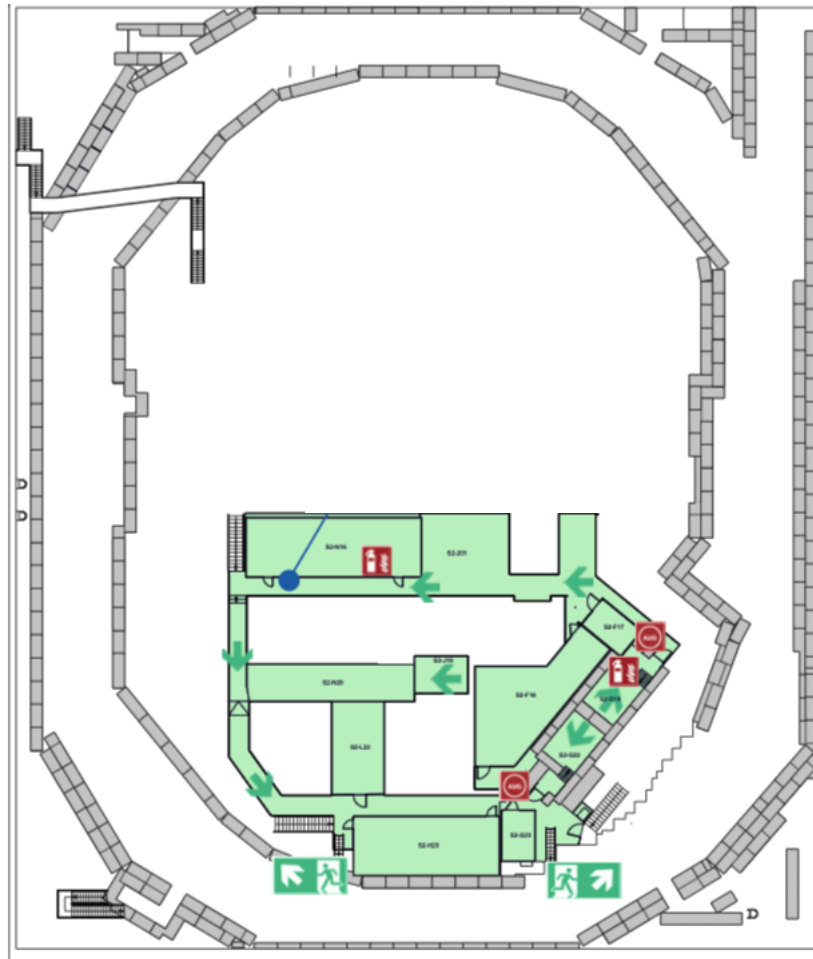
III. Reminder

1. Evacuation path
2. Transport

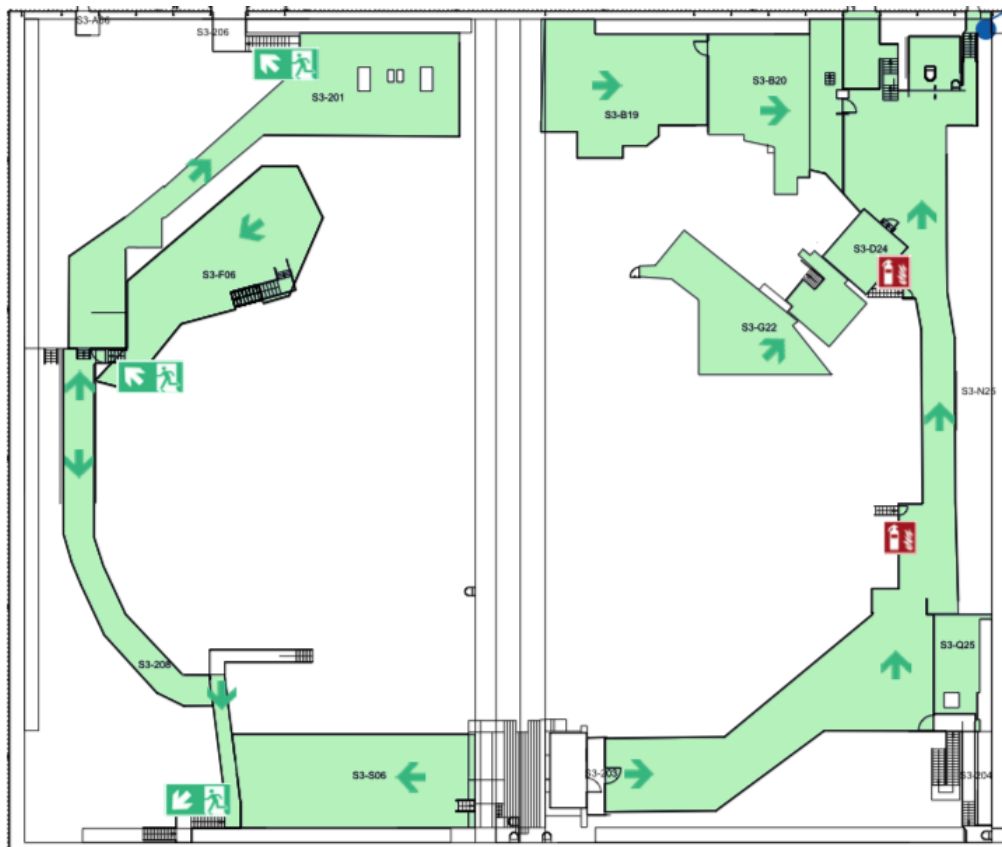
Evacuation path: ground floor



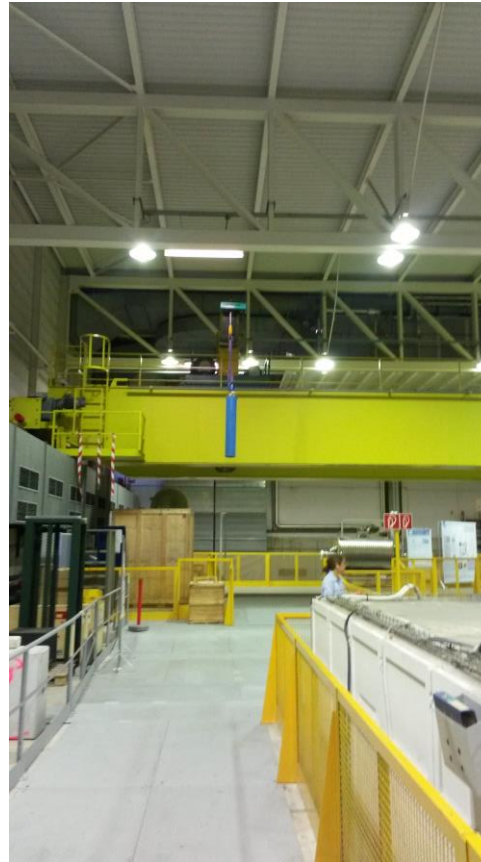
Evacuation path: intermediate floor



Evacuation path: top floor



Transport



Declare all the deviations in the hall
to the DSO, TSO or AFTC

Thank you for your attention!



