

MEDICIS

Safety Alarms Systems

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Safety Alarm Systems

Fire detection and evacuation

Outline

1. Requirements
2. Architecture
3. Layout
4. Status
5. Resources

1. Requirements

Compliant with Cern code E:

- Fire detection In Workshop – Laboratories - Technical services room - Corridors
- Evacuation sirens, automatically triggered by the fire detection system. Distributed manual push buttons mainly in the escape passages and near the exit doors

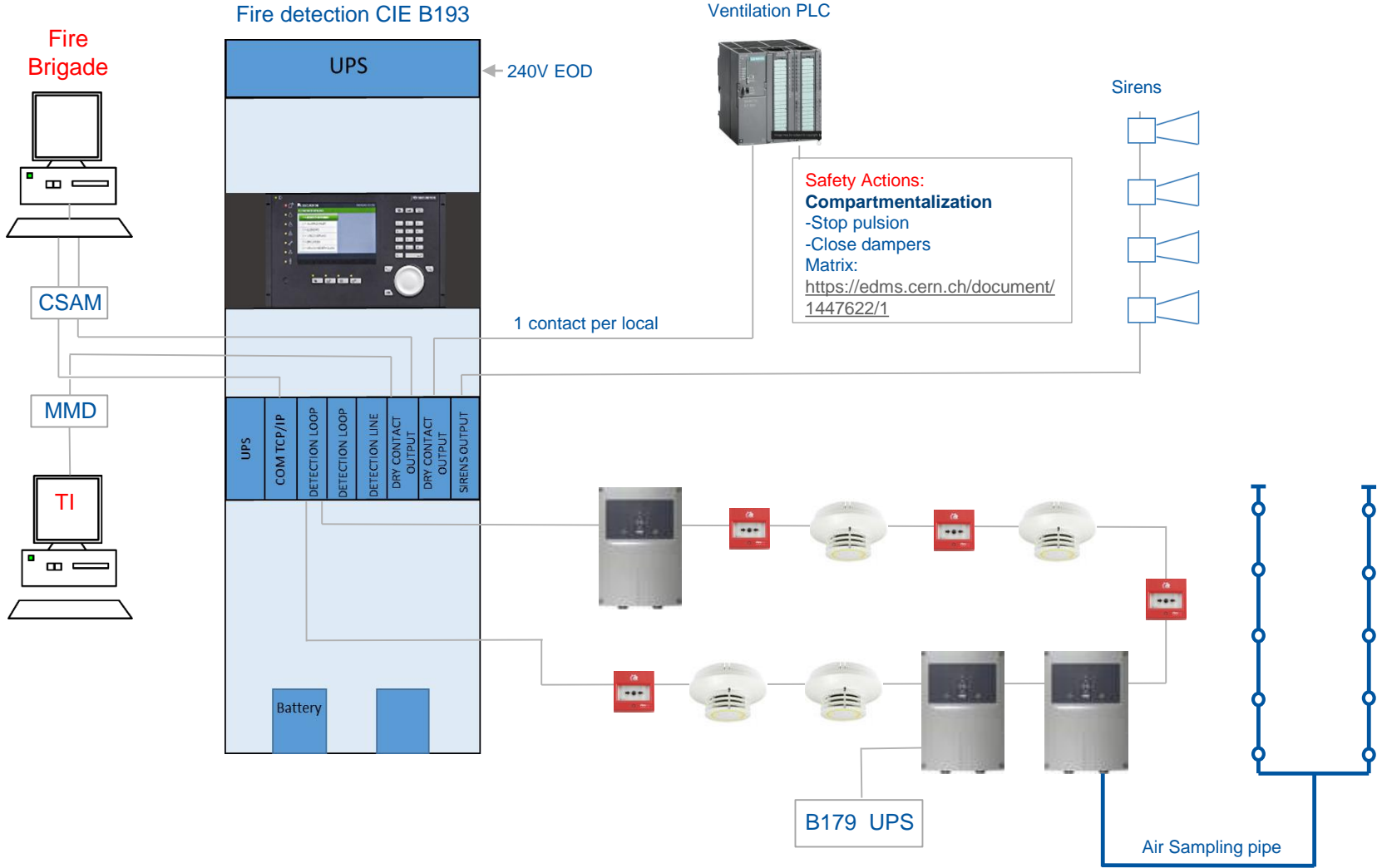
Additional requests:

- Fire detection on last filtrations stages
- Fire detection on electrical cabinet in CV room

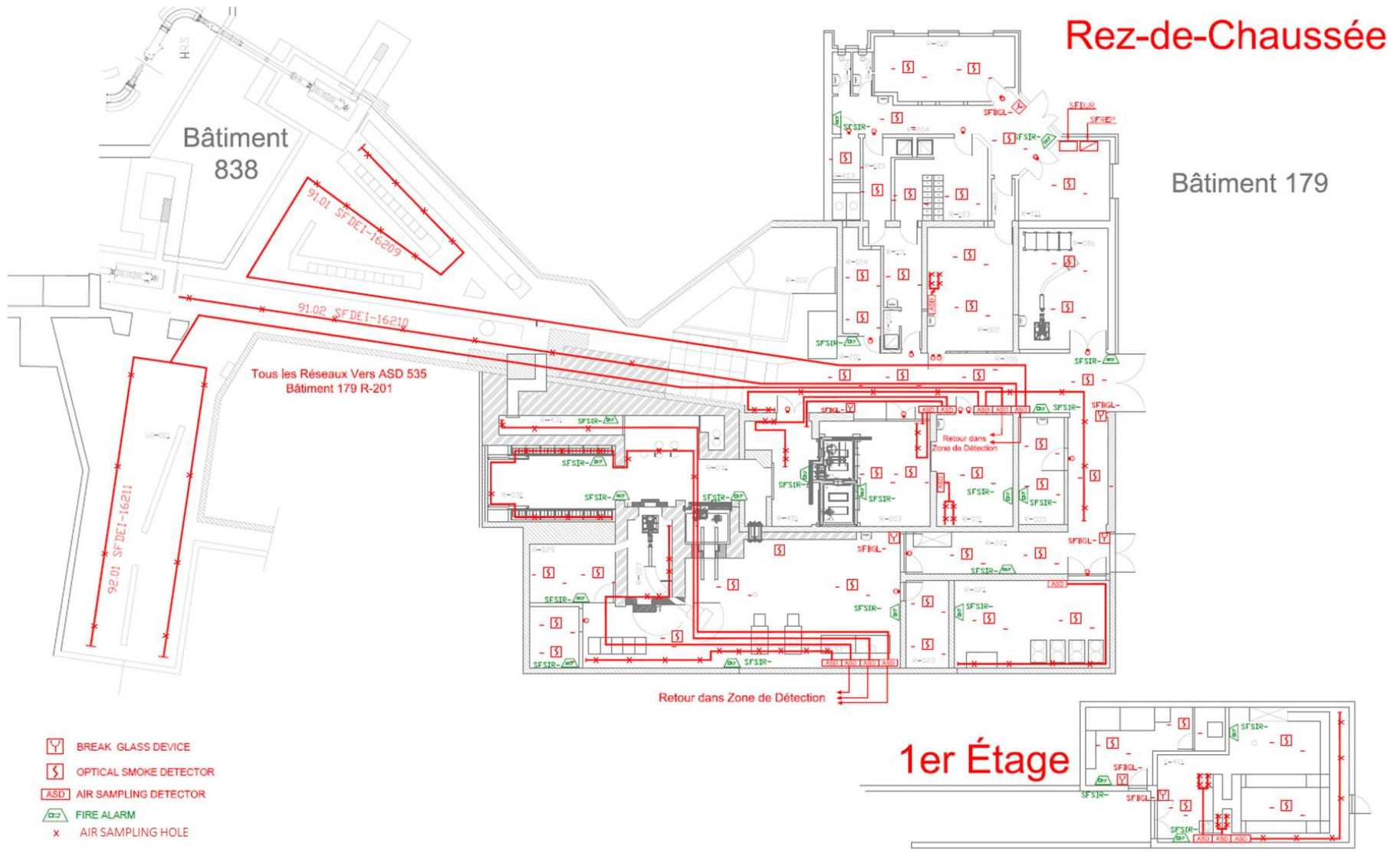
Not included

- Fire detection in hot cells

2. Architecture



3. Fire detection layout



-  BREAK GLASS DEVICE
-  OPTICAL SMOKE DETECTOR
-  AIR SAMPLING DETECTOR
-  FIRE ALARM
-  AIR SAMPLING HOLE

1er Étage

4. Fire detection and evacuation status

- Requirements 
- Preliminary design 
- Details design : 
- CIE Installation : 
- Cables B193 to B171 : 
- Integration : Some details to be fixed
- Contract Orders : March 2016
- Implementation : April 2016
- Commissioning : May 2016

5. Resources

1. Contracts

- Fire detection and evacuation : **B1212 Hekatron**

2. FTE

- 2015: 0.05 2016: 0.05

3. Budget

MEDICIS DI/EVAC	KCHF
Engineering	10
Supply	50
Cabling	25
Installation	25
Commissioning	10
CIE	0
TOTAL DI+EVAC	120