Fire supression systems

A overview for the review committee

IRINA PAVELIC

Agenda

1 Technical overview

2 Quality and compliance

3 Commissioning

4 Summary

System overview

=ESS.INFR.FM01; Fire Safety System

Sprinkler system

=ESS.INFR.FM01.FM13.FM02

The sprinkler system in **the cave** is installed as double interlock pre-action system with electric and pneumatic activaton. Both intelocks need to be activated to release water to the sprinklers.

The sprinkler system in **the hutch** is designed and installed as a wet system.

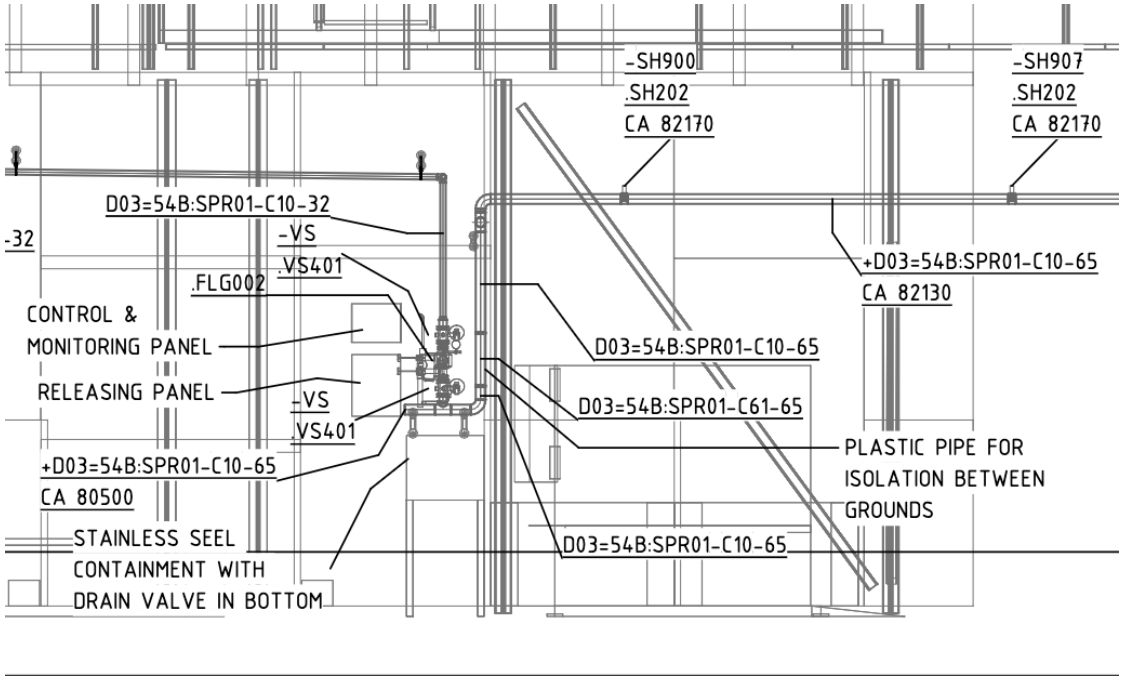
System overview

=ESS.INFR.FM01; Fire Safety System

Sprinkler system in the cave

Interlock 1:
Electric activation is controlled by a releasing panel that receives a signal from the fire detection system inside the cave in the event of a fire. The magnetic valve is blocking the water supply to valve.

Interlock 2:
The system is filled with compressed air, controlling the valve. Pneumatic activation occurs when the compressed air is released through an activated sprinkler, allowing the valve to open.



System overview

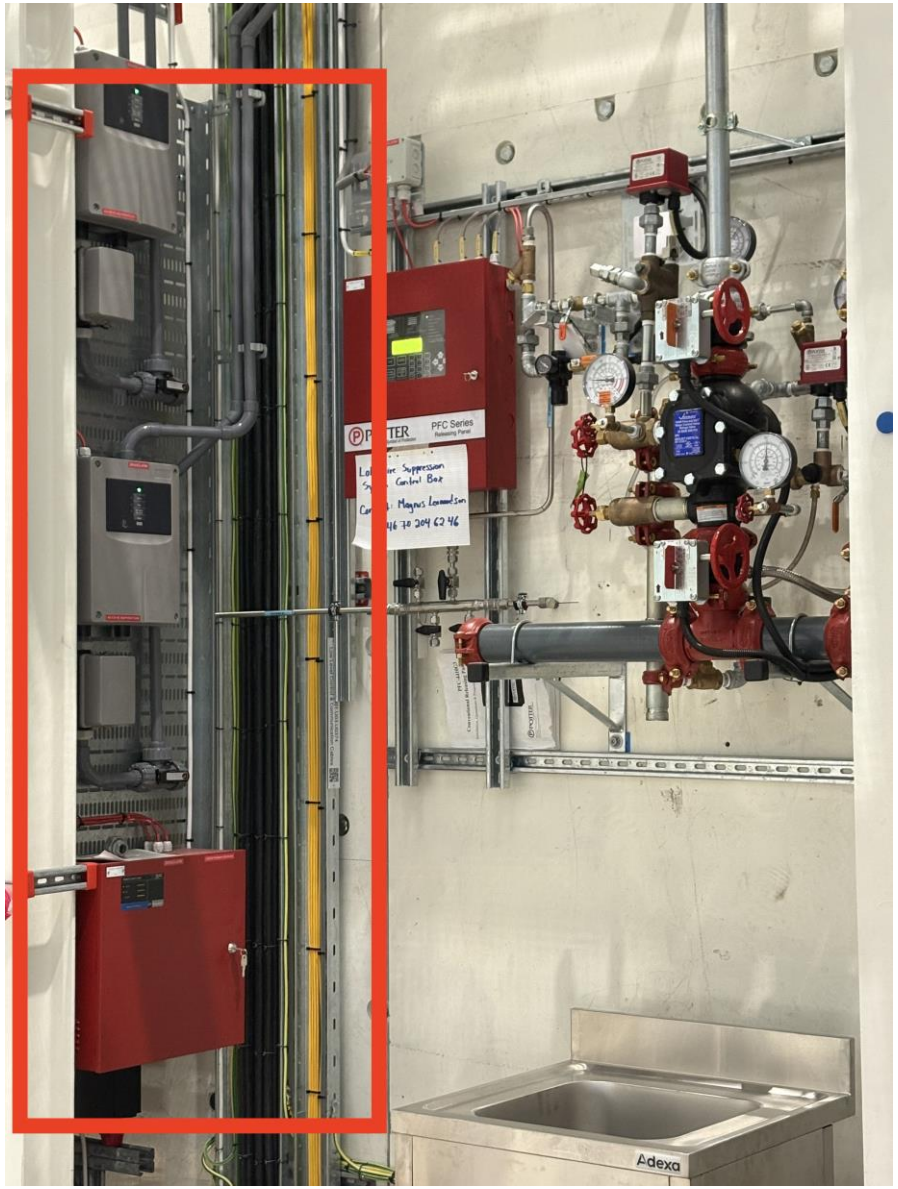
=ESS.INFR.FM01; Fire Safety System

Fire alarm system

=ESS.INFR.FM01.FM13.P01

Fire detection system in **the cave** is design and installed as aspiration system which actively draw air through a network of pipes, continuosly sampling the air.

Hutch is equipted with the fire detectors.



Quality & Compliance

Quality and Compliance

-ESS-0002381 – Fire strategy report

-ESS-5659428 – Technical specification Sprinkler piping, Caves & Hutches

-BBR 21 – Fire protection

-SBF 120 - Automatic sprinkler systems

-SBF 110:8 Fire alarm

-SS-EN 12845 – Automatic sprinkler systems

NCRs, NITs:

-no NCR, no NITs

Summary

An overview of the status

	Cave		Hutch	
	Sprinkler	Fire alarm	Sprinkler	Fire alarm
NIT	-	-	-	-
NCR	-	-	-	-
SAT	ESS-5937628	ESS-5844071	ESS-5937628	ESS-5844071

The system is integrated in the builing system and operational.

Finish presentation