





ENGINEERING  
DEPARTMENT

# Fire in the power cubicle of the BA80 cooling plant

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# Event

- **Friday 4<sup>th</sup> of June 2021 at 16h00' smoke detection in the BA80**

Today 16:00:19	📍 BA80/R-002 (889)	SECU_FEU_PRE	SFDEI-19446	FEU PRELEVEMENT
Today 16:00:21	📍 BA80 (889)	SECU_FEU_PRE	SFDIN-00313	FEU BAT.889 BA80
Today 16:02:51	📍 BA80/R-002 (889)	SECU_FEU_PRE	SFDEI-19447	FEU PRELEVEMENT
Today 16:03:12	📍 BA80/R-002 (889)	SECU_FEU_PRE	SFDEI-19448	FEU PRELEVEMENT
Today 16:06:28	📍 BA80/R-002 (889)	SECU_FEU_PRE	SFDEI-19449	FEU PRELEVEMENT

- **Concerned pump stopped at 16h10'06''**
- **Fire brigade intervened and hit the AUG button at 16h10'39''**
  - => stopped ventilations of the building

# Event



# Historic

## Before

- **10-years maintenance of the power cubicle performed by the manufacturer in 2016**
- **New drawers installed in 2016**

## Recently

- **The plant was restarted the 25<sup>th</sup> of March 2021 after the annual maintenance**
- **The 3<sup>rd</sup> of May a problem appeared on the pump P4 (concerned by the fire)**
- **Investigation with Schneider have led to the replacement of the VFD**
- **The pump P4 was put back in service the 4<sup>th</sup> of June (Measured =273A / In=320A)**
- **The pump ran (stable) for 51 min before the fire**

# Investigation and possible cause

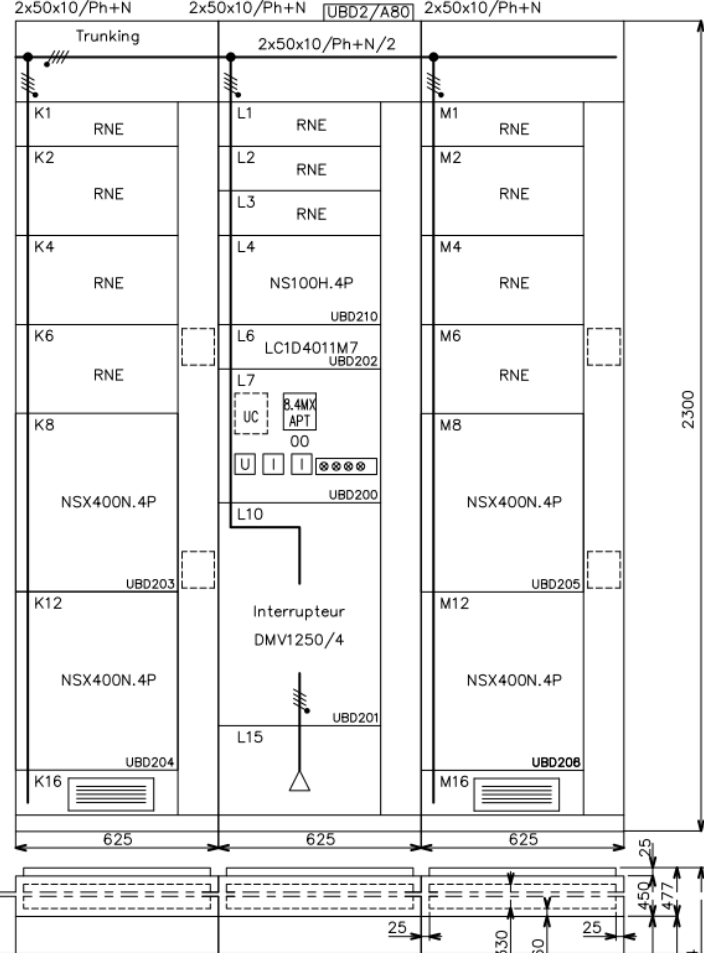
- **Check of cabling, settings, threshold for the circuit breaker => nothing abnormal found.**
- **Still some information to collect (VFD settings)**
- **Possible cause :**
  - The most probable cause at this stage is a loose connection.

# Solutions

- **Cut the busbar, reorganise and recable the power cubicle to supply two pumps by the not (so) damaged column. (=plan A)**
- **Resupply one or two pumps directly from EL power cubicles. (= plan B)**



**Cooling potentially back on Friday but more reliable planning tomorrow evening.**





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