

## Techno-pneumatic System Operation

Foam Deluge System includes following elements :

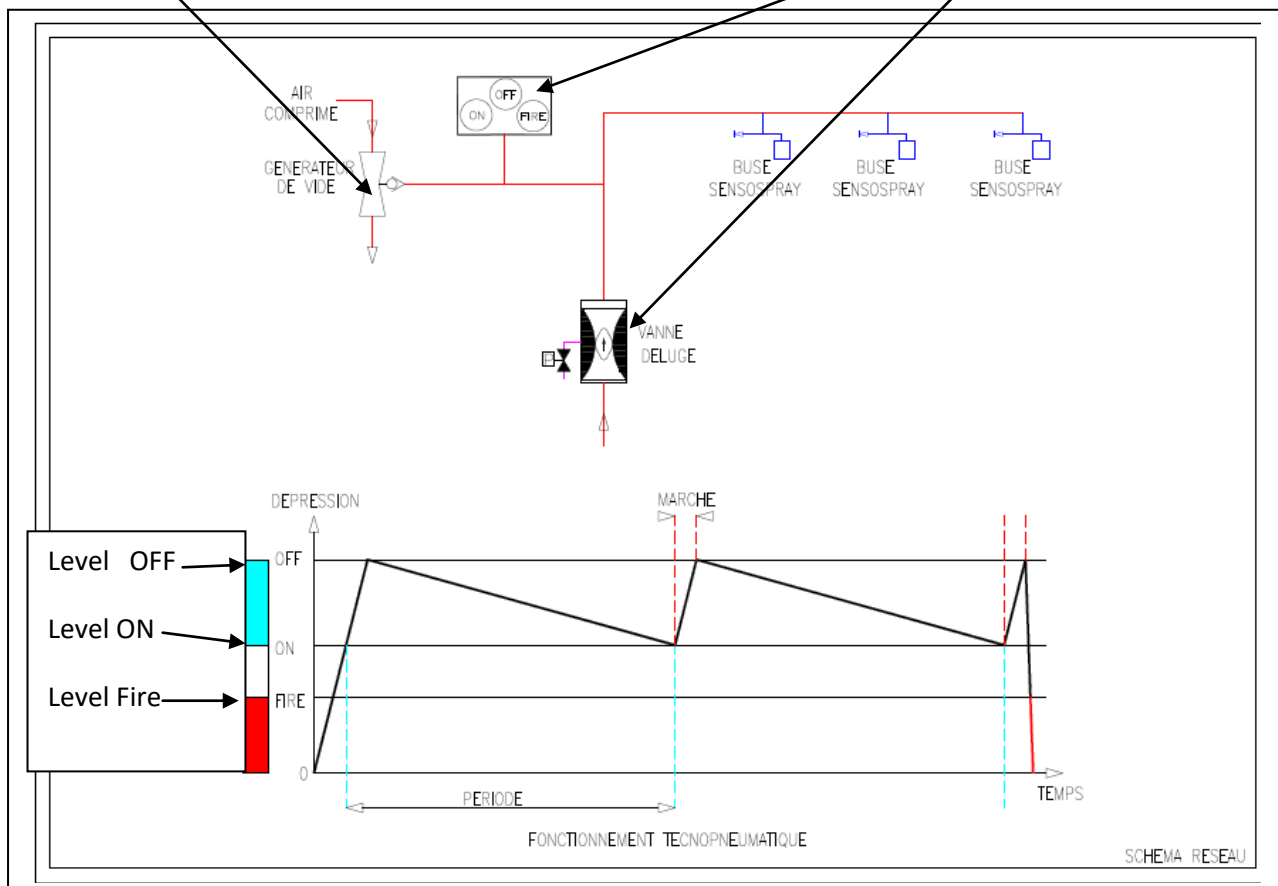
- 1- Piping network : with medium expansion foam nozzles type SensoSpray
  - Fedded with the foam solution
  - When pneumatic -operated deluge valve opens

- 2- Pneumatic control panel type **EDA** : " Vacuum control Box "  
Controls :

- 2-1 Vacuum maker :

Compressed air generates through a venturi vacuum inside the piping

- 2-2 Vacuum Controller acts as a 3 levels " jockey D "



**-“ jockey D” with 3 levels operation**

1- \*\*\*Compressed 'air generates through the venturi a vacuum inside the piping -  
 -When maximum vacuum level is reached..... level "OFF"  
 Then Compressed air is closed.

2- \*\*\*In the piping network , small leakages are existing :  
 - Then Vacuum in the piping is decreasing up to ..... level "ON"  
 Compressed air is automatically restarted in order to reach again the level OFF

3- \*\*\* if one foam nozzle Sensospray detects a sharp temperature increase  
 The foam nozzle establishes atmospheric pressure inside the piping,  
 -There is a sharp decrease of vacuum up to .....level "FIRE"

This level starts the pneumatic opening of the deluge valve and the supply of premix inside the piping

