

Main objective : Evaluate a new solution to replace SOX +DUC 18W safety lighting (env 2000 units).
End of production in 2012 .

Developed a test bench placed in position 463

aim : - Radiation tests on :

Power source :

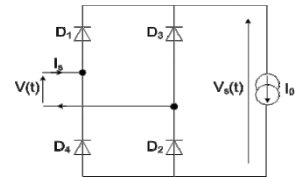
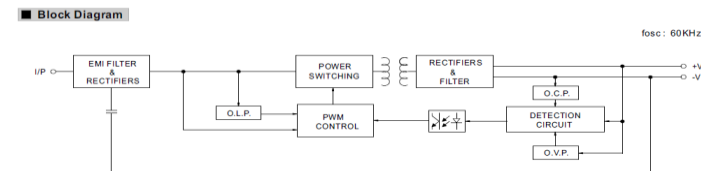
Current transformers

Voltage transformers + a Graetz bridge

Lighting system :

PowerLed technology

Standard led technology



- First Results shows :

Lost of the 1st current transformer :

Friday 18 of march : after 1 hrs of run => $\sim < 0.1 \text{Gy}$

Lost of the 2cd current transformer :

Friday 18 of march : after 4 hrs of run => $\sim 0.1 \text{Gy}$

Lost of the 3thr current transformer :

Saturday 19 of march : after 18 hrs of run. => $\sim 0.4 \text{Gy}$

Voltage transformers with Graetz bridge still alive

No lost of luminescence between two first slots (Luxmeter values)



Remote Webcam



Voltage historic trend

- Done on the 2cd slot :
 - Exchanged 2 broken current converter with Voltage transformers + Graetz bridge in order to follow the radiation effect on powerled.
 - Evaluate also a more intense powerled.



Remote Webcam

Currently working...

Next : look at the luminescence drift .