

	<b>Odel X-ray</b>	EEN0003 Eng. to Eng.Note 2003-0003
	<b>GENERATOR SWITCH OFF - OAB</b>	

**GENERATOR SHUT DOWN -> OAB**

Shut down in “OAB” error can happen during STAND-BY or at the end of an exposure either in Radiography mode, Fluoroscopy mode, HCF mode.

**DURING INSTALLATION**

The High Voltage Cables can be inverted:

*Always checkin the tube’s glass window, before exposing the first time, that at least one filament is visibly lighted in stand-by.*

The High Voltage Cable can be damaged:

*It can have the COMMON pin unconnected, in this case, making a preparation and looking inside the glass window of the tube, ONLY ONE FILAMENT have to be lighted*

**END OF EMISSION**

At the end of an emission, two concurrent condition must be verified:

- 1) Analog value of High Voltage must be below the 50% of the emission value within 25ms in Radiography, HCF and within 200ms in Fluoroscopy
- 2) High Voltage digital Signal (IRM) must be unactive within the same time

**INSPECTION**

- ➔ Mask the OAB switch off signal in Safety supervisor board (Jumper in Program HF US, Software Switch in R306.3x “Endeavour”) to leave the generator on even if the alarm occur
- ➔ Be sure the emission current is correct, a lower or no emission at all can enlong the duration of high voltage tail
- ➔ Using a scope visualize the High Voltage signal, IRM signal to understand if there is a fault in high voltage or in the generation and propagation of IRM signal.

**STAND-BY:**

In Stand-By state, MPU/MCU checks for analog power supply voltage (presence) and filament lighting current feedback (300mA over minimum radiography lighting current as maximum).

**INSPECTION:**

- ➔ Disconnect the filament connector on the High Voltage Transformer to avoid over-current in filament ONLY IF OAB SHUT DOWN HAPPENS IN STAND-BY.
- ➔ Mask the OAB switch off signal in Safety supervisor board (Jumper in Program HF US, Software Switch in R306.3x “Endeavour”) to leave the generator on even if the alarm occur
- ➔ Check for analog power supply on MPU/MCU (+15Vdc and -15Vdc), the faulty part can be a DC/DC converter or an electrolytic capacitor
- ➔ Check ILF and ISF signal (on Navigator or MPU LCD), the faulty can be either in DAC (command signal) chip output or in ADC (feedback signal read) chip input.
- ➔ Check the filament board power supply (+15Vdc, -15Vdc)
- ➔ Check V/F and RMS chip on filament board

**IDLE:**

In Idle state, MPU/MCU checks for analog power supply voltage (presence) .

DOCUMENTO		FOGLIO
NOMEFILE		1
<small>\\ISO9000\25  EEN-003 Generator Switch Off - OAB.doc</small>		di 1