



Communications  
& Power Industries

# LifeExtender and LifePredictor technologies

*Extend TWT life by up to 50%*



Technology  
applicable to  
all TWTAs

## Boost system performance with LifeExtender and LifePredictor technologies.



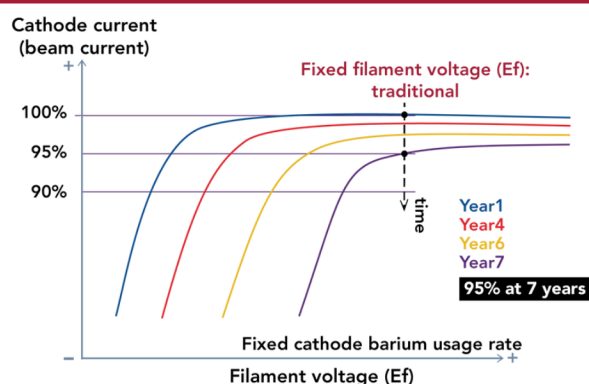
**LifeExtender:** Enhances the lifespan of traveling wave tubes (TWTs) by preserving the active coating on the cathode surface, which is crucial for their longevity.

This proprietary CPI technology extends the cathode life by 30% to 50%, making it a valuable resource that CPI recommends adding into its units. By utilizing the filament voltage method, this technology can be applied to all TWTs, regardless of manufacturer, as all TWTs are equipped with filaments.



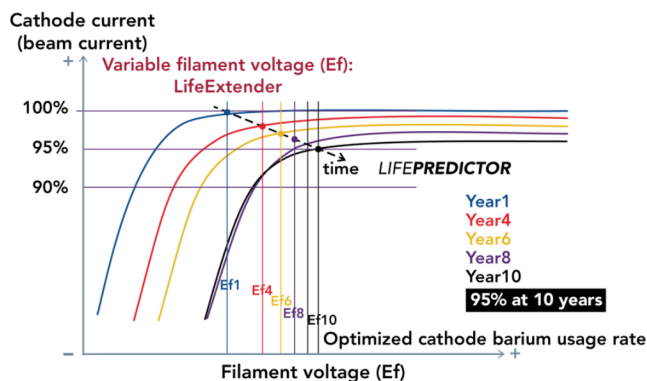
**LifePredictor:** Monitors the evolution of the cathode emission curve over time, enabling users to predict the remaining lifespan of TWTs. This allows for better planning of the sparing process and helps avoid downtime.

### Without CPI's LifeExtender



- Cathode barium usage over time is not optimized
- Emission curve moves faster to the right

### With CPI's LifeExtender



- Cathode barium usage over time is optimized, extending the lifespan of the cathode

## CONTACT US



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