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Case Study

Radio Controlled Obstruction Lighting

St Lucie International Airport, Florida, USA

PROJECT OVERVIEW	
Location:	Florida, USA
Date:	February 2010
Site:	St Lucie International Airport
Product:	AV70-RF
Application:	Radio Controlled solar-powered obstruction lighting

BENEFITS

- Clear identification of a no fly zone
- Enhanced safety for both day and night operations
- Reduction of noise pollution for nearby neighbourhoods
- Radio controller allows lights to be manipulated to suit various conditions
- Considerable savings in power consumption, installation and maintenance costs due to the use of solar power

"They are really neat to watch and come on, they come on instantly and are a great addition to our pilot training school. The lights are currently set on medium intensity as high intensity is very bright."

Airport staff
St Lucie International Airport
Florida, USA

Avlite Systems Supplies Radio Controlled Solar Power Obstruction Lighting to St Lucie International Airport

Avlite Systems has installed a radio controlled, solar powered LED obstruction lighting system for a voluntary noise abatement program at St Lucie International Airport in Florida, USA.

The lights will be installed on top of nearby telephone poles along US Highway 1 to illuminate a no fly zone for student pilots during touch and go training sessions. Multiple aviation schools will benefit from the Avlite solar powered radio controlled lighting system through enhanced safety for both day and night operations, reduced fuel consumption during touch and go operations and most importantly, the abatement of noise pollution for nearby neighbourhoods.

The Avlite solar powered radio obstruction lights use a wireless mesh network system, which allows for virtually unlimited range of control. Each light sends an encrypted message to its neighbouring light, thereby passing the signal and communications along the line of telephone poles.

The radio controller allows St Lucie International Airport to flash the lights in inclement weather, synchronize the lights to one flash code, activate the lights in the day or night, turn the lights off at night if flying exercises are not taking place and increase intensity during low visibility conditions.

As the most proven and trusted 2.4 GHz globally deployed radio controlled solar aviation lighting system for civil and defense aircraft, Avlite Systems was the clear choice for St Lucie International. Savings compared to conventional or alternative lighting solutions exceeded more than $50,000 without including maintenance or energy costs.