

# Airport Arrives at Savings Using TekDek™



Location: Spokane, WA  
Details: Spokane International Airport

*“We used to spend up to 16 hours each month changing this garage’s bulbs and ballasts on the HPS fixtures. Now it may be 10 years before we have to do anything to these Kenall TekDek lights.”*

- Ken Landrus  
SIA facility maintenance supervisor



## Project Summary

**Challenge:** Reduce maintenance time and expenses in the airport parking garage.

**Solution:** TekDek LED luminaires were deemed superior in photometrics and performance as a result of a rigorous two year evaluation process.

**Benefit:** Eight-year payback; \$45,000 utilities rebate; and an anticipated \$20,000 dollars in annual energy savings.

## TekDek's™ Intelligent Design and Durability Delivers Impressive Results

Spokane International Airport, Spokane, WA



The project involved a one-for-one replacement of high pressure sodium (HPS) fixtures with TekDek LED luminaires in the 33-year old, five-floor parking garage.

### TekDek provides:

- unprecedented glare reduction
- fixture efficacy 100 lumens per watt
- LED lifetime (L70) up to 150,000 hours per LED engine
- zonal dimming for up to 77% energy savings
- cutting-edge thermal management with patent-pending heat-sink technology

Spokane International Airport (SIA) is the second largest airport in the state of Washington; a 4,800 acre commercial service airport that is recognized by the FAA as a small hub. It serves six airlines and two air cargo carriers.

Like many organizations and businesses, the Spokane Airport Board, that operates and maintains the airport, is continually looking for ways to reduce energy consumption and costs, and lessen maintenance expenses.

After an extensive two-year evaluation process, a two-phase lighting improvement project in the South Garage Parking Structure was completed.

As a result of the two-year evaluation process, TekDek™ was determined to be photometrically superior to the other fixtures tested.

"Reducing maintenance time and expenses was a driving force for this project," said Ken Landrus, SIA facility maintenance supervisor. "We used to spend up to 16 hours each month changing this garage's bulbs and ballasts on the HPS fixtures, now it may be 10 years before we have to do anything to these LED lights."

### Landrus and the Airport Board are pleased with impressive results:

- an eight year payback
- a \$45,000 rebate from Avista Utilities
- anticipated annual energy savings of \$20,000 with the LED luminaires

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SIA facility maintenance supervisor

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The first phase included running conduit, wiring and a control system to prepare the parking garage for Phase II of installing the new lights. In a one-for-one replacement, 150W high pressure sodium (HPS) fixtures were retrofit with 80-watt TekDek LED luminaires.



TekDek produces a brighter, whiter light, making it easier for travelers to see their cars and feel safer at night.

### Arriving at Impressive Results

The new TekDek fixtures have dramatically greater output than the previously installed HPS lights.

TekDek is particularly advantageous with this parking structure's low ceiling heights, because it offers unprecedented glare reduction; a challenge not only with the previous HPS fixtures but also with many of the LED lights currently on the market.

Landrus and the SIA Airport Board are so impressed with TekDek that all new lighting projects will be retrofit with the LED luminaires whenever possible.

For more information, please visit us on the web at [www.kenall.com](http://www.kenall.com)



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