



sure bet program



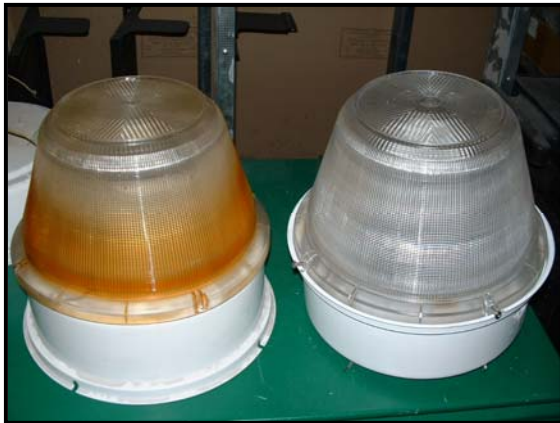
SURE BET PROGRAM

Offered By: Sierra Pacific Power and Nevada Power
Administered By: KEMA, Inc.

Rampart Casino *Replacement of Metal Halide Garage Lighting with 80-Watt CFLs*

Project Description

Bill McBride, Assistant Chief Engineer at the Rampart Casino in Las Vegas, performed a custom lighting retrofit in their 3-story garage parking area. Previously, the casino used a 175-watt metal halide lighting system in their parking garage; however, Mr. McBride decided to replace them with new 80-watt compact fluorescent lamps (CFL) for improved lighting quality and performance. Mr. McBride also anticipated a decrease in their operating costs.



*Heat damaged metal halide fixture (left),
New metal halide fixture (right)*



New CFL fixture

Mr. McBride and his staff are very impressed with the new CFL fixtures and their associated benefits. They successfully eliminate the humming noise and excessive heat that was created by the aging metal halide fixtures. Additionally, the new CFL fixtures provide a better spread of light, reduced wattage, and reduced maintenance needs. All of these benefits ultimately led to significant cost savings for the facility.

A total of 468 CFL fixtures were installed to replace the metal halide fixtures in the parking garage. As a result of the retrofit, the facility experienced energy savings of 383,064 kWh in their first year, and a reduction in peak demand of 30.4 kW. The outcome of this project was an overall annual savings of approximately \$30,798. For their efforts towards developing a more energy efficient facility, the Rampart Casino received incentives totaling \$15,000 from Nevada Power through the Sure Bet Program.

Project Results:

Demand savings	30.4 kW
Annual energy savings	383,064 kWh
Annual energy cost savings	\$30,798.00
Total project cost	\$27,261.00 ¹
Custom incentive	\$15,000.00
Payback period (Years)	0.4



New 80-watt CFL

¹ Material costs only, labor was completed in-house.