



**CITY OF SAN CARLOS FY2010-11 BUDGET
BASE BUDGET EXPENSE AMENDMENT –
PROGRAM CHANGE FORM**

Priority Tracking	
Department Priority	1
City Manager Priority	3
City Manager Recommended	Y
Council Accepted	

PROGRAM: 01541 and 01561 Streets and Traffic Control
 REQUEST TITLE: Reduced Operations and Maintenance due to
 LED Street Light Conversion

Request Summary

Recognize reduced energy and maintenance costs due to grant-funded conversion of 200 high pressure sodium street lights to LED fixtures. Annual savings of \$12,500 but for the first year only 50% of savings due to timing of conversion totaling \$6,250

Factors Driving the Request for Change

- Using a grant from the American Recovery and Reinvestment Act (ARRA), 200 high pressure sodium street lights on Industrial Road, Old County Road, Brittan Avenue, San Carlos Avenue and Alameda de las Pulgas will be replaced with LED street lighting in 2010. This is expected to reduce energy and maintenance costs by \$12,500.
- The cut would come from \$11,000 in utility billings from PG & E and an estimated \$1,500 in reduced contract maintenance costs. LED street lights have a significantly longer design life than high pressure sodium street lights.

Impact of Change

- The LED street lights have a whiter color and some people perceive them as causing a high level of glare.
- The change would result in CO2 reduction of 44,000 kg/yr, one-half (1/2) percent of the Climate Action Plan emissions reduction goal for the year 2030.

Alternatives

Another approach would be to eliminate approximately 10% of the street light inventory. This would bring lighting levels below those recommended by the Illuminating Engineers Society of North America and would result in reduced public safety due to increased risk of crime and pedestrian injuries. A capital cost of \$15,000 would be incurred to take the street lights out of service. If service were to be restored in the future, an additional \$15,000 would be incurred to restore the street lights back to service.

Cost Summary

Line Item Description	Org Number	Object Co	Total Amount
Operating Expense (list detail description below)			
Reduction in PG&E street light charges	01561000	520101	5,500.00
Reduction in contract maintenance	01541000	520320	750.00
Total Operating Costs			\$ 6,250.00
Offsetting Revenues			
Overhead Allocation Impact (cost to or recovery from other funds)			
From Workers Comp			
From Risk Mgmt			
From Sewer			
From NPDES			
From Gas Tax			
From RDA			
From RDA Housing			
Net Operating Costs			\$ 6,250.00