

DATE ISSUED: October 25, 2002

REPORT NO. 02-251

ATTENTION: Rules, Finance and Intergovernmental Relations Committee  
Agenda of

SUBJECT: Conversion of Street Lighting from Low Pressure Sodium Vapor  
(LPS) to High Pressure Sodium Vapor (HPS)

REFERENCE: Manager's Reports No. 82-351 dated August 18, 1982  
Manager's Reports No. 93-185 dated June 11, 1993  
Manager's Reports No. 94-310 dated October 13, 1994  
Manager's Reports No. 01-128 dated June 14, 2001  
Manager's Reports No. 02-021 dated January 18, 2002 and  
Manager's Reports No. 02-039 dated February 20, 2002

### SUMMARY

THIS IS AN INFORMATION ITEM ONLY. NO ACTION IS REQUIRED ON THE PART OF THE COMMITTEE OR THE CITY COUNCIL.

### BACKGROUND

On February 26, 2002, in accordance with Resolution R-296141 the Mayor and City Council directed the City Manager to develop a plan to convert existing street lights from Low Pressure Sodium (LPS) to High Pressure Sodium (HPS) over a five-year period, starting in Fiscal Year 2004. LPS luminaries that burnout should be replaced with HPS starting in Fiscal Year 2003.

### DISCUSSION

The conversion of LPS to HPS street lights includes all areas in the City of San Diego outside of a 30-mile radius from Mt. Palomar Observatory. In accordance with Resolution R-296141, funding has been identified in which Street Division estimates conversion of approximately 4,600 LPS street lights during Fiscal Year 2003. Status

reports on streetlight conversion to HPS are scheduled with the Rules Committee in October, January and April of Fiscal Year 2003 in order that the Mayor and Council may be kept apprised of the conversion process.

In a memorandum dated July 16, 2002, the Mayor requested the transfer of \$100,000 TRANSNET money from the Mayor's Citywide TRANSNET Eligible Project Fund to CIP 61-201.0 for the purpose of converting burned out street lights Citywide to HPS. In addition, in a memorandum dated July 16, 2002, Deputy Mayor George Stevens, Councilmember Byron Wear, Councilmember Jim Madaffer, and Councilmember Ralph Inzunza, requested the transfer of a total of \$200,000 from Council Districts TRANSNET Eligible Project Fund to the above CIP as follows:

- \$50,000 from Council District Two
- \$50,000 from Council District Four
- \$50,000 from Council District Seven
- \$50,000 from Council District Eight

In addition to the above, Council District 3 previously designated \$270,000 of TRANSNET Eligible Project Funds and anticipated Section 108 funds to the CIP. Also, Council District 4 allocated an additional \$150,000 of TRANSNET Eligible Project Funds for street light conversions in their District.

Furthermore, in Fiscal Year 2003, Street Division budgeted \$62,500 from its Operating Budget for the conversion of burned out street lights Citywide. The Operating Budget also includes \$98,400 to replace 4,100 LPS lights with LPS lights when they burn out. However, due to the priority of converting LPS street lights to HPS, the Street Division will redirect funds not needed to replace burned out LPS with LPS outside a 30-mile radius of Mt. Palomar. These remaining funds will be available to convert additional LPS street lights to HPS.

The total available funding of \$782,500 in Fiscal Year 2003 for converting street lights to HPS is summarized below:

- **\$720,000 CIP 61-201.0 TRANSNET Eligible Project Fund**
  - \$100,000 Mayor
  - \$ 50,000 Council District Two
  - \$270,000 Council District Three
  - \$200,000 Council District Four
  - \$ 50,000 Council District Seven, and
  - \$ 50,000 Council District Eight
- **\$62,500 Street Division's Operating Budget**(plus any remaining LPS replacement funds)

**Total        \$782,500+**

The City's current inventory of LPS street lights outside a 30-mile radius of Mt. Palomar is 23,967. Total projected cost to convert these would be a one-time cost of \$3,072,506 and an annual increase in energy cost of \$889,296. The cost to convert 6,260 LPS lights would be a one-time cost of \$782,500 and an annual increase in energy cost of \$232,277. Street Division anticipates completing the 6,260 conversions in early FY 2004. This conversion would reduce the total number of LPS street lights remaining to be converted to 17,707.

Street Division began converting burned out LPS street lights to HPS effective July 1, 2002. With the current workload, Street Division expects to convert an average of 30- 40 lights per day utilizing existing personnel without adversely impacting the day-to-day maintenance operations.

Based on the available funding approximately 4,600 lights are expected to be converted throughout the City during this Fiscal Year. Since July 1, 2002, over 600 LPS street lights have been converted to HPS.

All underground utility conversions that include street lights will also be subject to HPS conversions.

Staff will continue to explore energy saving alternative lighting, including solar, neon, and light-emitting diodes (LED).

Respectfully submitted,

Approved by:

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D. Cruz Gonzalez  
Director, Transportation Department

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George I. Loveland  
Senior Deputy City Manager

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