

DATE ISSUED: November 15, 2002 REPORT NO. 02-273

ATTENTION: Honorable Mayor and City Council  
Agenda of November 20, 2002

SUBJECT: Five-Year Plan to Convert Existing Low Pressure Sodium (LPS)  
Lights to High Pressure Sodium (HPS) Lights.

REFERENCE: Manager's Report No. 02-251 dated October 25, 2002

#### SUMMARY

Issue – Shall the City Council Adopt a resolution accepting the City Manager's plan to convert existing street lights from Low Pressure Sodium (LPS) to High Pressure Sodium (HPS) over the course of five years starting in FY'04 and as they burn out starting in FY'03?

Manager's Recommendation – Adopt the Resolution.

Other Recommendation – None.

Fiscal Impact – Approximately \$460,103 in Street Division's Fiscal Years '04-'08 Operating Budgets will be used to convert 3681 LPS lights to HPS lights. An additional \$1,821,625 is required to convert the remaining 14,576 LPS lights.

Beginning FY'04, and continuing through FY'08, \$178,000 per year will be required to offset the increase in energy associated with the HPS lights.

#### BACKGROUND

On February 26, 2002, in accordance with Resolution No. R-296141, the Mayor and City Council directed the City Manager to develop a plan to convert existing street lights from LPS to HPS over the course of five years starting in FY'04 and as they burn out starting in FY'03.

On October 30, 2002, City Manager's Report No. 02-251 was presented to the Rules, Finance and Intergovernmental Relations Committee. The purpose of the October 30th report was to provide the status of converting burned out LPS lights to HPS lights. This report outlines the City Manager's plan to convert all LPS lights to HPS in FY'04 through FY'08.

DISCUSSION

The citywide inventory of 40,025 street lights consists of 26,005 LPS lights and 14,020 HPS lights. Approximately 2,038 LPS lights within a 30-mile radius from Mount Palomar Observatory will not be converted to HPS, therefore there are 23,967 street lights to be converted to HPS over the five-year period.

In FY'03, a total of \$713,719 (\$592,183 contributed by the Mayor & Council and \$121,536 from Street Division's operating budget) will pay for the conversion of approximately 5,713 lights. Year-to-date, 1,140 LPS lights have already been converted.

In FY'04 through FY'08, a combined five years total of approximately \$460,103 from Street Division's operating budgets will be allocated to replace approximately 3,681 burned out LPS lights. Subtracting the 5,713 lights that will be converted in FY'03, approximately 14,573 LPS lights will remain to be converted at an estimated cost of \$1,822,000.

Additionally, it is estimated the converted 23,967 HPS lights will cost \$889,000 in added energy costs. Therefore, beginning in FY'04, an additional \$178,000 per year will be required to increased energy costs associated with the converted HPS lights.

The City Manager will annually identify funding required in the proposed budget to continue converting LPS lights and offset the increased energy costs. The attached table summarizes the City Manager's proposed plan.

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

LOVELAND/MXS

Attachment: [LPS/HPS Lights Conversion Project](#)