



**CITY OF LODI
COUNCIL COMMUNICATION**

AGENDA TITLE: Adopt Resolution Approving Application for a Congestion Mitigation and Air Quality (CMAQ) Grant to the San Joaquin Council of Governments (\$800,000)
MEETING DATE: November 17, 2004
PREPARED BY: Public Works Director

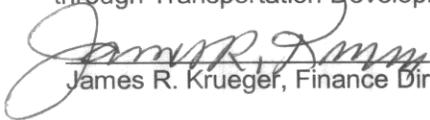
RECOMMENDED ACTION: That City Council adopt a resolution approving the application for a Congestion Mitigation and Air Quality grant to the San Joaquin Council of Governments. The grant is for the purchase of ten compressed natural gas (CNG) Dial-A-Ride vehicles.

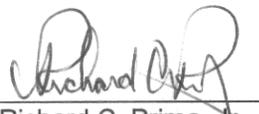
BACKGROUND INFORMATION: One of the goals of the Public Works Department is to deliver projects that benefit the City and enhance the services provided to the Community. This grant program is an important element in achieving that goal. The Transit Division is in need of vehicle replacements for several existing transit vehicles. These vehicles, while still operable, have exceeded their useful life and have become increasingly costly to maintain. The grant, as prepared by staff, would replace the five remaining gasoline-fueled vehicles in our fleet with new CNG vehicles. This replacement would complete the conversion of the transit fleet to CNG.

In addition, staff is applying for an additional five vehicles to assist with the increasing demand for service, as well as to allow older vehicles to be moved into a reserve fleet to be available when active vehicles go in for regularly-scheduled maintenance or are involved in an accident. The current response time for demand service on Dial-A-Ride is 22 minutes. With the addition of these five vehicles, it is staff's intention to see that wait time significantly reduce. The vehicles will also offer the system greater ability to handle the increase in passengers who use wheelchairs, as each of the additional vehicles will be equipped with several wheelchair positions. However, the biggest benefit is the ability to better manage and coordinate the scheduling of vehicles in and out of the maintenance shop. Currently, the system is operating at peak capacity during several times of the day, limiting the timeframe for vehicles to be serviced by the shop. The five additional vehicles will create a reserve fleet to allow operations to continue during peak hours while allowing the shop greater flexibility in scheduling their routine maintenance work. Staff does not anticipate a significant increase in operating expenses from the addition of the five new vehicles. While there may be some additional billable hours for operations during peak periods, these vehicles will primarily be used to maintain service levels when vehicles are in the shop for repairs or maintenance. Currently, the fleet functions without reserve vehicles and service is greatly impacted when numerous vehicles are in for repair. This will allow the older vehicles in the fleet to be placed in a reserve fleet, to be available when numerous vehicles are in the shop.

The grant is requesting \$600,000 in funding with a \$200,000 local match from the Transit fund. A copy of the grant application has been included.

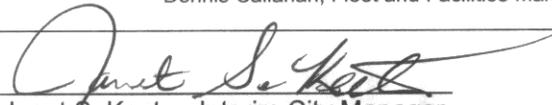
FUNDING: This grant requires a local match. The local match for the Dial-A-Ride vehicles will be covered through Transportation Development Act funds and fare revenue.


 James R. Krueger, Finance Director


 Richard C. Prima, Jr.
 Public Works Director

Prepared by Tiffani M. Fink, Transportation Manager
 RCP/TMF/pmf
 Attachment
 cc: Tiffani Fink, Transportation Manager

Dennis Callahan, Fleet and Facilities Manager

APPROVED: 
 Janet S. Keeter, Interim City Manager

Project Name and Limits:

10 Compressed Natural Gas Dial-A-Ride Vehicles for the
City of Lodi Transit Service

Contact Information
Name, Title, Address, Phone:

Tiffani M. Fink
Transportation Manager
City of Lodi
221 West Pine Street
Lodi, CA 95240
(209) 333-6800 x2678

Check all screening criteria that apply:

- Project is eligible for CMAQ under Federal guidelines.
- Project is consistent with the most recent San Joaquin COG Regional Transportation Plan.
- Project can be fully obligated by the date identified in the application.
- Project is financially viable and fully funded.
- The non-federal match is at least 20% of the total project cost; if it is a safety project, the local match is 11.5% of total project cost.
- Project complies with American Disabilities Act.
- Project is consistent with an adopted regional or local plan.
- Project Map is attached, if applicable.

CERTIFICATION STATEMENT

I have been duly authorized to submit the following project proposal to the SJCOG for scoring and possible programming. I certify that the information and responses contained herein are accurate to the best of my knowledge.

Signature: Tiffani M. Fink Date: November 3, 2004

Project Description:

The City of Lodi is applying for the purchase of 10 Compressed Natural Gas (CNG) Dial-A-Ride vehicles. These vehicles are used primarily for Dial-A-Ride and additionally, serve the Express Routes the City operates in cooperation with the Measure K program. Five of the proposed vehicles are scheduled to be replacement vehicles with the additional five to be added into the active fleet, reserving the older vehicles currently operating as reserve. The service provided currently by the five vehicles proposed to be replaced are the only traditional fueled vehicles (gasoline) remaining in the City's transit fleet. These vehicles are proposed to be replaced with CNG. The City currently operates 20 CNG vehicles including five NABI's and a CNG replica Trolley. Additionally, the City operates its own CNG fueling facility. The City of Lodi's maintenance staff performs all regularly scheduled maintenance and repairs on the existing fleet and is well trained in the proper maintenance and care of CNG fueled vehicles. The replacement of these vehicles also fulfills the City's commitment to Transportation Control Measures for the Extreme Ozone Plan. In that plan, the City committed to cleaning the air by utilizing an alternatively fueled transit fleet.

As previously mentioned, five of the vehicles proposed are new vehicles. However, five of these vehicles are replacements. The five vehicles that they are to replace are quite old and well over their recommended service life. The vehicles are as follows.

| Lodi Vehicle Number | In Service Date/ Yrs in Service | Federal Useful Service Life | Vehicle Identification Number | Current Mileage |
|----------------------------|--|------------------------------------|--------------------------------------|------------------------|
| 10-035 | 09/09/96: 8 yrs | 5 yrs | 1FDLE40G0THB57385 | 317,790 |
| 10-036 | 09/05/96: 8 yrs | 5 yrs | 1FDLE40G2THB57405 | 261,238 |
| 10-037 | 09/05/96: 8 yrs | 5 yrs | 1FDLE40G4THB57387 | 313,408 |
| 10-038 | 09/09/96: 8 yrs | 5 yrs | 1FDLE40G6THB57388 | 310,471 |
| 10-039 | 09/16/96: 8 yrs | 5 yrs | 1FDLE40G2THB57386 | 308,298 |

All five of the vehicles proposed for replacement are well beyond their 5 year federal useful service life. These vehicles are currently 8 yrs old and by the time they are scheduled for replacement through the CMAQ program, they will be 9 years old. Additionally, these vehicles have high mileage readings and continue to be used in daily service. Their age, coupled with their high mileage, results in high maintenance costs and operational constraints as vehicles are in the maintenance shop at a higher frequency.

In addition, the five new expansion vehicles will allow for five of our older vehicles to move into a reserve fleet. Currently, the City of Lodi's transit operations does not have a reserve fleet. This has created difficulty in maintaining service as

vehicles are rotated in and out of the shop for maintenance. A listing of the vehicles to be added to the reserve fleet is listed below.

| Lodi Vehicle Number | In Service Date/ Yrs in Service | Federal Useful Service Life | Vehicle Identification Number | Current Mileage |
|---------------------|---------------------------------|-----------------------------|-------------------------------|-----------------|
| 10-030 | 1995: 9 yrs | 5 yrs | 1FDJE30G9RHB54009 | 225,745 |
| 10-031 | 1995: 9 yrs | 5 yrs | 1FDJE30G5RHB54010 | 255,554 |
| 10-032 | 1995: 9 yrs | 5 yrs | 1FDJE30G5RHB70708 | 234,514 |
| 10-033 | 1995: 9 yrs | 5 yrs | 1FDJE30G8RHB70718 | 247,080 |
| 10-034 | 1995: 9 yrs | 5 yrs | 1FDJE30GXRHB70719 | 232,030 |

Special Consideration Projects:

This project will implement alternative fuel passenger carrying vehicles or necessary support facilities. The proposed project is composed of the purchase of 10 Compressed Natural Gas vehicles, five replacement vehicles and five new vehicles. The City of Lodi has been extremely successful in its application of CNG for transit purposes. These vehicles will be able to fuel at the CNG fueling facility within the City of Lodi's Municipal Service Center and are maintained by maintenance staff which are highly qualified to work on CNG vehicles.

FUNDING. List funding source by project phase and year of request. Typical construction project phases include Preliminary Engineering (PE), Right-of-Way (ROW), and Construction (CON). Phases for transit projects include operation (OP) and capital (CAP).

| Phase | CMAQ Funds | Other Fund Sources | Total |
|----------------------|--------------|--------------------|--------------|
| CAP- Bus Procurement | \$600,000.00 | \$200,000.00 | \$800,000.00 |
| | | | |
| | | | |
| | | | |

Project Schedule:

| Milestone | Quarter (1 st Qtr = July 1- Sept 30) (2 nd Qtr = Oct 1 – Dec 31) (3 rd Qtr = Jan 1 – Mar 30) (4 th Qtr = April1 – June 30) | Fiscal Year (State fiscal year, July 1 – June 30) |
|--|--|--|
| Environmental Certification | | |
| Right-of-Way Certification | | |
| Design Start Date | | |
| Design Completion Date | | |
| Ready to Advertise for Construction | | |
| Project Completion (open for use) | First 5 | Second 5 |
| For transit/other projects: Capital Purchase | Award: 1st qtr 05/06 Deliver: 4th qtr 05/06 | Award: 1st qtr 06/07 Deliver: 4th qtr 06/07 |
| For transit/other projects: Operations | | |

CATEGORY D: EXTERNAL IMPACTS

Calculate cost-effectiveness by using the model and provide documentation and explanations of each assumption or data input used. The Evaluation Committee will carefully scrutinize every data input for validity and reasonableness. The results of the model are below.

Estimated Lifetime Emission Reductions

| | |
|------------|---------------|
| NOx (lbs) | <u>51,864</u> |
| ROG (lbs) | <u>-528</u> |
| PM10 (lbs) | <u>224</u> |

Total (lbs) 51,560

Cost-effectiveness (\$/lb) 17.68

CATEGORY E: OTHER

Local Match: What percent of the total project cost comes from other funding sources? 25% (A 20% local match is required for all CMAQ projects with exception to safety projects which can have a local match of 11.5%.)

Is this a Measure K Project Yes No. Describe how the project advances the Measure K Program.

Five of the ten requested vehicles will be replacement vehicles for the remaining gasoline fueled buses in the Transit fleet. This will finish the conversion to an entirely CNG fleet. These vehicles will be used to operate the Express Routes which are partially funded through Measure K. The Express Routes seek to reduce congestion at peak hour and have been extremely successful. The replacement of these vehicles with Compressed Natural Gas (CNG) will further reduce emissions thereby further improving air quality. The Express Routes also meet the Transportation Control Measure commitment made by the City of Lodi in which transit committed to an 100% Alternative Fuel fleet.

Provide/elaborate on the delivery schedule of the project. Proposal needs to convince evaluation committee that the project can be delivered on schedule.

It is the intention of the City of Lodi to try and procure vehicles off the State of California's fleet procurement contract following the awarding of this funding by the San Joaquin Council of Governments. Should a successful match be found on the contract, the City will begin procurement. It is anticipated the first 5 vehicles will deliver in late 05/06 and the second set of 5 vehicles will deliver in late 06/07.

Bonus: Check one for projects using clean fuels, if applicable: ___ Project has zero emissions Project uses hybrid, fuel cell, compressed natural gas, or other alternative fuel. ___ Project uses clean diesel.

ON-ROAD PROJECTS

Fiscal Year 2002-03

County: San Joaquin

Federal Number:

Approval Date:

Caltrans DIST-EA:

Short Description: Dial-A-Ride Vehicle Replacement- 10 CNG Vehicles

Project Scope: Purchase 10 Dial-A-Ride Vehicles for revenue service. Five vehicles will be replacement vehicles and 5 are for expansion. All new vehicles will be CNG.

Project Sponsor: City of Lodi

Private Agency: No

CMAQ Funding: \$600,000

Local Match: \$200,000

Capital Recovery Factor: 0.14

Project Analysis Period: 8 years

Vehicle Miles Traveled (VMT): 175,000 annual miles

EMISSION FACTORS:

| Baseline Vehicle Emission Factors | Cleaner Vehicle Emission Factors |
|-----------------------------------|----------------------------------|
| ROG : 0.00 grams per mile | 0.17 grams per mile |
| NOx : 17.70 | 0.88 |
| PM10 : 0.10 | 0.03 |

EMISSION REDUCTIONS:

| | Pounds per Year | Kilograms per Day |
|---------------|-----------------|-------------------|
| ROG: | -66 | 0 |
| NOx: | 6,483 | 8 |
| PM10: | 28 | 0 |
| Total: | 6,446 | 8 |

COST-EFFECTIVENESS OF:

| | | |
|-----------------------------|-------------------|------------------|
| CMAQ Funds: | \$13.26 per pound | \$26,520 per ton |
| All Funding Sources: | \$17.68 per pound | \$35,359 per ton |

RESOLUTION NO. 2004-250

A RESOLUTION OF THE LODI CITY COUNCIL APPROVING APPLICATION TO THE SAN JOAQUIN COUNCIL OF GOVERNMENTS FOR A CONGESTION MITIGATION AND AIR QUALITY GRANT FOR THE PURCHASE OF TEN (10) COMPRESSED NATURAL GAS DIAL-A-RIDE VEHICLES, AND FURTHER AUTHORIZING THE CITY MANAGER TO EXECUTE GRANT APPLICATION ON BEHALF OF THE CITY OF LODI

WHEREAS, the Transit Division is in need of vehicle replacements for several existing transit vehicles. These vehicles, while still operable, have exceeded their useful life and have become increasingly costly to maintain; and

WHEREAS, the grant would replace the five remaining gasoline-fueled vehicles in our fleet with new compressed natural gas (CNG) vehicles, and this replacement would complete the conversion of the transit fleet to CNG; and

WHEREAS, in addition, staff is applying for an additional five vehicles to assist with the increasing demand for service, as well as to allow older vehicles to be moved into a reserve fleet to be available when active vehicles go in for regularly-scheduled maintenance or are involved in an accident; and

WHEREAS, the grant application requests \$600,000 in funding with a \$200,000 local match from the Transit fund.

NOW, THEREFORE, BE IT RESOLVED that the Lodi City Council hereby approves application for a Congestion Mitigation and Air Quality Grant to the San Joaquin Council of Governments for the purchase of ten (10) CNG Dial-A-Ride vehicles; and

BE IT FURTHER RESOLVED that the Lodi City Council hereby authorizes the City Manager to execute the Grant Application on behalf of the City of Lodi.

Dated: November 17, 2004

I hereby certify that Resolution No. 2004-250 was passed and adopted by the Lodi City Council in a regular meeting held November 17, 2004, by the following vote:

AYES: COUNCIL MEMBERS – Beckman, Hitchcock, Howard, Land, and Mayor Hansen

NOES: COUNCIL MEMBERS – None

ABSENT: COUNCIL MEMBERS – None

ABSTAIN: COUNCIL MEMBERS – None



SUSAN J. BLACKSTON
City Clerk