EPC **SPECIAL** 6/6/01



June 5, 2001

Commissioner Ronda R. Storms, Chair Hillsborough County Environmental Protection Commission 1410 N. 21st Street CMAQ

Tampa, Florida 33605

Subject: Congestion Mitigation and Air Quality Program (CMA) for the Streetcar Project

Commissioner Richard Glonoso Chairman

Councilman Shawn Harrison Vice Chairman

> Mayor Fran Barford City of Temple Terrace

Commissioner Stacey L. Easterling Hillsborough County

> Kimberlee DeBosier Expressway Authority

Commissioner Richard Glonoso City of Plant City

> Mayor Dick A. Greco City of Tampa

Councilman Shawn Harrison City of Tampa

> Commissioner Chris Hart Hillsborough County

Commissioner Jan Platt Hillsborough County

Councilwoman Linda Saul-Sena City of Tampa

[™] Commissioner Thomas Scott Hillsborough County

> Ed Turanchik HARTline

Louis E. Miller Hillsborough Co. Aviation Authority

> George Williamson Tampa Port Authority

James Beeler (Ex-Officio) The Planning Commission

Kenneth A. Hartmann, P.E. (Ex-Officio) FDOT, District Seven

> Lucilla L. Ayer, AICP Executive Director

Dear Chairman Storms:

In regards to your request for the MPO to reconsider its vote on allocating CMAQ funds to the Streetcar Project, the MPO Board met today and had a lengthy discussion. After a detailed presentation by staff followed by in-depth discussion among board members, it was agreed that the there has been some misunderstanding and that the issues should be resolved at the local level.

As you have been made aware, a motion was made by Commissioner Platt and supported by Commissioners Easterling and Commissioner Hart to direct me to ask you, as the Chairman of the Environmental Protection Commission, to convene a meeting on June 6, 2001, to discuss this issue with the hope that we can avoid elevating this misunderstanding to the federal level. I am very pleased that this has now been scheduled at 1:30 PM tomorrow.

As can be explained, the MPO has established two processes for selecting projects for CMAQ funding. One process involves projects that have been previously approved and the other is for new project applications.

Previously approved projects have been subjected to the project review process and ranked by the MPO. These projects have received funding in the past and are in the implementation stage. If it is determined that the cost of the project will exceed the funding allocated by the MPO, the implementing agency is required to take one of the following actions, as outlined in the attached September 26, 1994, letter addressed to Mr. William H. McDaniel Jr., the then District Secretary.

1. Provide additional local funding.

- 2. Modify the scope of the project to match the approved funding.
- 3. Schedule a presentation to the MPO for the purpose of explaining the need for requesting additional funds.

Hillsborough County Metropolitan Planning Organization P.O. Box 1110 601 E. Kennedy, 18th Floor

Tampa, Florida 33601-1110 813/272-5940 FAX NO: 813/301-7172

FAX NO: 813/272-6255 http://www.hillsboroughmpo.org e-mail: transportation@plancom.org

Cooperative Comprehensive Multi-Modal Transportation Planning for the Local Governments and Transportation Agencies in Hillsborough County, Florida

Commissioner Ronda Storms, Chair Hillsborough County EPC

4. Decide that the project is no longer cost effective and decide not to pursue the project.

It is the MPO's opinion that the Streetcar Project falls into the category of an ongoing or previously approved project. As you may be aware, funding for the Streetcar Project has been allocated each year from 1996 through 2003. Additional funding has also been allocated in 2006. CMAQ funding has been allocated in Fiscal Years 1999, 2000 and 2003. The project is under construction utilizing reimbursable local funds and should be open by early summer of next year.

On the other hand, requests for funding of new projects are submitted to the MPO each year during its project prioritization process. Applications are received by the MPO and reviewed by the CMAQ committee. The CMAQ committee is a technical group consisting of members from the Environmental Protection Commission, Florida Department of Transportation, the Department of Environmental Protection and the Hillsborough County Metropolitan Planning Organization. The CMAQ committee reviews the air quality benefits of each project and ranks the projects accordingly. The ranking is used by MPO staff to prepare a recommendation to the MPO board on funding these projects. The projects and recommended funding are then submitted to the MPO Board for its approval. However, it is important to note that these projects are competing for new funding to be available five years from the year they are being prioritized for the new Transportation Improvement Program.

To assist in clarifying some of the misunderstanding, I am enclosing some pertinent information in preparation of the meeting.

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Sincerely,

Commissioner Richard Glorioso

Chairman

RG:LA

Enclosures

cc: Environmental Protection Commission Members

FOR

PROJECT EETCAR

Congestion Mitigation Air Quality (CMAQ)

Program Purpose:

rather than maintain existing transportation areas to reduce transportation emissions assist non-attainment and maintenance To fund improvement projects that will networks.

Congestion Mitigation Air Quality (CMAQ)

Eligible Projects:

- Transportation Demand Management
- Shared-Ride Services
- Transit Projects
- from a Congestion Management System Intersection & Corridor Improvements

Two Processes:

- Existing/Ongoing Projects
- Have been previously approved
- Have received funding
- New Projects
- New applications
- Must be prioritized

Existing Projects:

- Use Local Funds
- Seek Additional State/Federal **Funds**
- Scale Back Project
- **Drop Project**

New Projects:

- Applications Submitted to MPO
- Committee (EPC, DEP, DOT, MPO) Reviewed and ranked by CMAQ
- Presented to TAC, CAC, Policy Committee
- Approved by MPO Board / Sent to FDOT

Streetcar Project:

components necessary for a functional The Streetcar project includes all system:

•Track

Stations

Streetcars

Operations

Streetcar Project:

- Previously Approved
- Received Funding:

(Includes Tracks, Cars, Stations & Operations)

- MPO/Federal Funds
- State Funds
- Local Funds

Streetcar Project:

Existing / Ongoing Project

Questions from EPC Meeting

Was there an agreement between MPO staff and EPC staff to review CMAQ **Projects?** In January 2000, staff of the MPO, EPC, project review process for reviewing NEW projects eligible for funding 5 FDOT and DEP developed a CMAQ years later.

Questions from EPC Meeting

Are the Streetcar and Station different projects?

includes everything in Phase NO - The Streetcar project cars, tracks, stations, etc.

Question from EPC Meeting

Was an Air Quality Analysis ever done on the Streetcar project?

- •YES
- Prepared by HARTline in 1996
- •Reviewed & Approved by FDOT
- Reviewed & Approved by Federal
 - Agencies

Who Decides How CMAQ Funds are Allocated?

intended for transportation projects that CMAQ funds come from the Federal Transportation Trust Fund and are also improve air quality.

The MPO is responsible for allocating these Federal transportation funds.

PROCESS FOR EXISTING PROJECTS

Mr. William H. McDaniel Jr. FDOT District Seven Secretary Florida Department of Transportation 11201 N. Malcolm McKirley Drive Tampa, FL 33612-6403

Dear Mr. McDaniel:

Re: Hillsborough County Metropolitan Planning Organization Priorities for FY 95/96 - 99/00

Attached is the listing of the MPO project priorities for use by the Department in developing its Tentative Work Program for fiscal years 1995/1996 through 1999/2000.

The MPO's priorities focus on completion of the following unfunded or partially funded major projects or corridors:

National Highway System or Turnpike Funding:

- Tampa Interstate System (I-4, I-275)
- I-1 Connector with the Crosstown Expressway
- Veteran's Links Project (Courtney Campbell Causeway to I-275)
- Gandy/Crosstown Connector

Other Corridor (STP or other state funds):

- Hillsborough Avenue from Eisenhower Boulevard to Nebraska Avenue
- Martin Luther King, Jr. Boulevard from Pine Street to McIntosh Drive
- 40th Street from Hillsborough Avenue to Fowler Avenue
- 22nd Street Causeway from US 301 to SR 60

Miscellaneous:

- Transportation Management Organizations (TMOs)
- Intermodal Improvements/Downtown Transportation Terminal

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In addition to the projects listed above, the attached list of priority projects includes the modified list of STP Enhancement projects. The funding levels of several projects have been changed in order to more closely match the selected projects to the anticipated revenues. Furthermore, the MPO Board adopted a policy to be used whenever the

Mr. William H McDaniel Jr. MPO Priorities
Page 2

estimated cost of an enhancement project exceeds the funding allocated to that project by the MPO. The policy is stated below for your convenience:

"In the event that, during the design or implementation of an MPO selected enhancement project, it is determined that the cost of the project will exceed the funding allocated by the MPO, the implementing agency shall take one of the following actions:

- Provide additional local funding needed to complete the project as originally approved, or
- Modify the scope of the project to match the funding approved by the MPO and notify the MPO of the revised scope, or
- Schedule a presentation to the MPO for the purpose of explaining the need and requesting additional funds, or.
- Decide that the project is no longer cost effective and decide not to pursue the project further. In this event, the jurisdiction or implementing agency shall notify the MPO that it will not complete the project."

It is requested that whenever FDOT is the implementing agency for an MPO selected enhancement project, that it comply with the above policy.

Also included in the attached list is the priorities for the anticipated allocation of CMAQ funds for FY 95/96.

Finally, the MPO Board has asked the Department set aside funds for a number of corridor studies, including Major Investment Studies, that may be necessary to support decisions on major transportation investments.

The MPO requests that the Department follow the above priorities to the maximum extent feasible in developing its tentative work program. In addition, there are a number of changes, outlined in the July 18, 1994 letter from David Twiddy to me, that are to be made as part of the work program development cycle.

Should you have any questions on the MPO's priorities summarized above or listed on the attachment, please call me at 272-5940.

Sincerely,

Thomas L. Thomson Executive Director

Enclosure: Listing of TIP Project Priorities

xc: MPO Board Members

PROCESS FOR NEW PROJECTS

HILLSBOROUGH COUNTY MPO TIP APPLICATION PROCESS FOR FY02/03 - FY06/07

KICK-OFF MEETING FEBRUARY 27th LOCAL AGENCIES SUBMIT APPLICATIONS MARCH - APRIL 27th APPLICATIONS ARE REVIEWED BY MPO STAFF AND CMAQ COMMITTEE MAY - JULY APPLICATIONS FORWARDED TO POLICY COMMITTEE, TAC, CAC MPO STAFF PREPARES DRAFT PRIORITY LIST JULY DRAFT PRIORITY LIST FORWARDED TO POLICY COMMITTEE, TAC, CAC AUGUST DRAFT PRIORITY LIST PRESENTED TO MPO BOARD SEPTEMBER FINAL PRIORITY LIST FORWARDED TO FOOT

SEPTEMBER

CMAQ Application Packet 2-27-01

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- Overview
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- Technical Assistance Points of Contacts

The Congestion Mitigation and Air Quality Improvement (CMAQ) Program

Overview

The purpose of the Congestion Mitigation and Air Quality (CMAQ) program is to fund transportation projects or programs that will contribute to attainment or maintenance of the national ambient air quality standards (NAAQS) for ozone and carbon monoxide. The Transportation Equity Act also allows CMAQ funding to be expended in particulate matter nonattainment and maintenance areas.

Hillsborough County, although currently designated as an ozone maintenance area and thus eligible for CMAQ funds, has recently experienced elevated ozone readings and is in jeopardy of not meeting the NAAQS. Much of our inability to meet the air quality standards is due to daily vehicle miles traveled on our road system. Accordingly, the Metropolitan Planning Organization (MPO), in coordination with the State and local air quality agencies, is charged with determining which projects and programs will ease the travel demand burden. This CMAQ evaluation process will serve to develop a pool of potential projects to aid in this effort.

Included in this document is information to assist applicants with the various aspects of the application process, and the priorities by which projects will be evaluated. The MPO Policy Committee is recommending prioritizing projects which result in the greatest air quality benefit, those that remove vehicles from the road.

Congress did not intend CMAQ funding to be the only source of funds to reduce congestion and improve air quality. Other funds under the Surface Transportation Program (STP) or the Federal Transit Administration (FTA) capital assistance programs, for example, may be used for this purpose as well. Furthermore, the greatest air quality benefit will accrue not solely from Federal funds, but from a partnership of Federal, State and local efforts.

CMAQ Workgroup Members

Hillsborough County Metropolitan Planning Organization Charles E. White, AICP Mike Rowicki P.O. Box 1110 Tampa, Fl 33601-1110 Phone (813) 272-5940 Fax (813) 272-6258

Environmental Protection Commission of Hillsborough County Reginald Sanford Paul Cooper 1410 North 21" Street Tampa, Fl 33605 Phone (813) 272-5530 Fax (813) 272-5605

State Department of Environmental Protection Louis Fernandez 3804 Coconut Palm Drive Tampa, Fl 33619 Phone (813) 744-6458

State Department of Transportation
Danny Lamb
11201 McKinley Drive
Tampa, FL 33612

Phone: 813) 975-6437 Fax: 813) 975-6443

	Transmit Adopted MFO Filorities to FDOT	MTO Public Hearing & Adoption Priorities	Present Draft Priorities to CAC	Present Draft Priorities to TAC	Present Dialt Priorities to Policy Committee	Stall prepare draft Priorities	Present Applications to MPO	PresentApplications to CAC	Present Applications to Policy Committee	Present Applications to TAC	CMAO Committee reviews applications	Dendline to submit applications	Follow up leller alter Kick-off Mig	TII' Kick-off Mig	Mailoul Kickoff meeting letter	Mailout letter inviting FDOT to Kick-off Mig	INGR	NSV1		TIP PRIORITIES DEVE
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CMAQ PROCESS FLOW CHART

Interested Party develops projects and submits to Local Agency to sponsor

Local agencies Work with CMAQ Committee to submit Applications from March through April (Technical assistance is provided during this time)

CMAQ Committee reviews applications for eligibility, evaluates emissions analysis and prioritizes application

MPO forwards the list of applications to the TAC, CAC, Policy Committee and MPO Board

MPO Staff prepares and presents draft priorities to Committees and to MPO Board for prioritization

MPO forwards the application and emissions analysis to District 7 for review

Once the review is complete, and the district concurs with the proposed project and emissions analysis, the application and emissions analysis is forwarded to the Federal Highway Administration for final eligibility determination

FHWA reviews and approves the project applications for CMAQ eligibility and notifies District 7

The District notifies the MPO and copies the applicant. The approval letter contains the point of contact for the Joint Participation Agreement/contract execution process, and includes the request that the applicant contact the District directly

Eligibility Criteria

General Conditions

Air Quality Analysis

Quantitative Analyses: Quantitative assessment of how the proposal is expected to reduce emissions is extremely important to assist this area in developing and funding the most effective project. They also provide an objective basis for comparing the costs and benefits of competing proposals for CMAQ funding. It is particularly important to assess and quantify the benefits of projects that increase or improve basic transportation services. Therefore, assumptions used in justifications must be reasonable and based on either historical data, actual data or verifiable data from a similar project. This includes assessing emission reductions of transit, traffic flow improvements, ITS projects and programs, ridesharing, and bicycle and pedestrian improvements. In addition, analyses are expected for conversions to alternative fuels and for Inspection Maintenance programs (I/M). Every effort must be made to ensure that determinations of air quality benefits are credible and based on a reproducible and logical analytical procedure that will yield quantitative results of emission reductions. It is with this in mind that a compendium of previous projects, along with corresponding emissions calculations, has been included in this document.

Qualitative Assessment: Although quantitative analysis of air quality impacts is required whenever possible, some improvements may not lend themselves to quantitative analysis because of the project's characteristics or because practical experience is lacking to adequately analyze the project. In these cases, a qualitative assessment based on a reasoned and logical examination of how the project or program will decrease emissions and contribute to attainment or maintenance of the NAAQS is appropriate. Public education, marketing and other outreach efforts fall into this category.

<u>Capital Investment</u>: CNLAQ funds should be used for establishment of new or expanded transportation projects and programs to help reduce emissions.

Operating Assistance: There are several general conditions which must be met in order for any type of operating assistance to be eligible under the CMAQ program.

• In extending the use of CMAQ funds to operating assistance, the intent is to help start up viable new transportation services, which can demonstrate air quality benefits and eventually will be able to cover their

ongoing operating costs Other established funding sources should supplement and ultimately supplant the use of CNLAQ funds for operating assistance.

• Operating assistance includes all costs related to ongoing provision of new transportation services including, but not limited to, labor, administrative costs and maintenance.

 When using CMAQ funds for operating assistance, local share requirements still apply.

• Operating assistance is limited to new mansit services and new or expanded transportation demand management strategies.

Operating assistance under the CMAQ program is limited to 3 years.

<u>Public Good</u>: CMAQ funded projects should be for the good of the general public. Public-private partnerships may be eligible, as long as a public good (i.e., reduced emissions) results from the project.

Eligible Activities and Projects

- Transportation Activities in an approved State Implementation Plan (SIP) or Maintenance Plan
- Transportation Control Measures such as those listed below:
 - (i) programs for improved public transit;
 - (ii) restriction of certain roads or lanes to, or construction of such roads or lanes for use by, passenger buses or High Occupancy Vehicles, (HOV);
 - (iii) employer-based transportation management plans, including incentives;
 - (iv) trip-reduction ordinances;
- (v) traffic flow improvement programs that achieve emission reductions;
 - (vi) fringe and transportation corridor parking facilities serving multiple-occupancy vehicle programs or transit service;
 - (vii) programs to limit or restrict vehicle use in downtown areas or other areas of emission concentration particularly during periods of peak use;
 - (viii) programs for the provision of all forms of high-occupancy, shared-ride services;

- (ix) programs to limit portions of road surfaces or certain sections of the metropolitan area to the use of non-motorized vehicles or pedestrian use, both as to time and place;
- (x) programs for secure bicycle storage facilities and other facilities, including bicycle lanes, for the convenience and protection of bicyclists, in both public and private areas;
- (xi) programs to control extended idling of vehicles;
- (xii) reducing emissions from extreme cold-start conditions (newly eligible);
- (xiii) employer-sponsored programs to permit flexible work schedules;
- (xiv) programs and ordinances to facilitate non-automobile travel, provision and utilization of mass transit, and to generally reduce the need for Single Occupancy Vehicles (SOV) travel, as part of transportation planning and development efforts of a locality, including programs and ordinances applicable to new shopping centers, special events, and other centers of vehicle activity;
- (xv) programs for new construction and major reconstructions of paths, tracks or areas solely for the use by pedestrian or other non-motorized means of transportation when economically feasible and in the public interest.
- Public-Private Partnerships-TEA-21 provides greater access to CMAQ funds for projects which are cooperatively implemented under agreements between the public and private sectors and/or non-profit entities.
- Alternative Fuels: The purchase of publicly-owned, alternative fuel vehicles is eligible for CMAQ funding
- Traffic Flow Improvements
- Intelligent Transportation Systems (ITS)
- Transit Projects
- Bicycle and Pedestrian Facilities and Programs
- Travel Demand Management
- Outreach and Rideshare Activities
- Telecommuting

Fare/Fee Subsidy Brograms

Completing Application Form

Funding proposals should be detailed enough to provide a clear picture of the project scope and its intended air quality benefits. A general description and justification of the project must be included in the proposal. The following information should be provided in the proposal:

- 1. Who will undertake the project? (ie. Local Agency)
- 2. What does the project entail?
- 3. When will the project be initiated and completed?
- 4. Where will the project be implemented?
- 5. Who is the Contact Person?
- 6. What is the cost of the project?
- 7. What are the proposed sources of funding for local match and ongoing maintenance of the project? (federal, state, local, private, etc.)
- 8. Who is the project sponsor?

 (Local Agency willing to fund local match and ongoing maintenance, if any)
- 9. Project Justification must provide general information relating to the project's impact on reducing transportation emissions, including all assumptions. (CMAQ technical committee can assist applicants with this information.)
- 10. Expected emissions reductions for quantifiable projects.

Priority Criteria

- Projects that remove vehicles from the road.
- Projects that reduce travel delay (include multi-modal benefits).

- Outreach projects that change the public's driving behavior.
- Projects with quantitative emission reduction benefit for the ozone precursors nitrogen oxide. (Summarize emissions benefit and attach assumptions and analysis).
- Projects with a qualitative emission reduction benefit for the ozone precursor nitrogen oxide. (Explain anticipated emission benefits and assumptions).
- Projects with the most efficient dollar per ton cost/benefit (utilizing an analysis that takes into account the life cycle of the project).
- Projects with air quality benefits to be realized within 3 years.g consequence

Accountability

The CMAQ workgroup members have formed a committee to examine the effectiveness of previously approved projects. Applicants are expected to maintain logs and other reasonable records that could be used to evaluate a project's effectiveness. Information on specific requirements will be by workgroup members during the air quality analysis review.

Technical Assistance Points of Contact

NAME	AGENCY	PHONE	E-MAIL
Charles White	Hillsborough MPO	(813) 272-5940	Whitec@plancom
Michael Rowicki	Hillsborough MPO	(813) 272-5940	Rowickim@planc om.org
Reginald Sanford	Environmental Protection Commission	(813) 272-5530	Sanford@epcjanu s.epchc.org
Paul Cooper	Environmental Protection Commission	(813) 272-5530	Cooper@epcjanus .epchc.org
Louis Fernandez	Department of Environmental Protection	(813) 744-6100 ext. 105	Louis.Fernandez @dep.state.fl.us
Danny Lamb	Florida Department of Transportation	(813) 975-6437	Daniel.Lamb@do t.state.fl.us



HILLSBOROUGH COUNTY METROPOLITAN PLANNING ORGANIZATION CONGESTION MITIGATION AND AIR QUALITY

APPLICATION FORM

APPLICANT:			•	DATE	
EMPLEMENTO	R IF DIFFERI	ENT FROM APPL	ICANT:		
CONTACT PER	SON:	<u> </u>		PHONE #	
PROJECT NAM				F ALX 41	
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IS PROJECT TAI	KEN FROM A	CONGESTION 3	/LANA GEMENT	System plan	OR CORRIDOR
YES	·	_NO		• •	e e e e e e e e e e e e e e e e e e e
PROJECT COST	(\$1000's):				
FUNDING BY FIS	SCAL YEAR (IF KNOWN-IN 51	000's)		
Last Year	06/07	07/08	08/09	09/10	TOTAL
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ı	ERIA: (N/A if project does not address a specific criteria)
	Projects that remove vehicles from the road.
	OR
	OR .
	Projects that reduce travel delay (include multi-modal benefits).
	Outreach Projects that change the public's driving behavior.
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	Projects with quantitative emission reduction benefit for the ozone precursor nitrogen oxide. (Summarize emissions benefits and attach assumptions and analysis and attach assumptions and analysis.)
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	Projects with qualitative emission reduction benefit for the azone precursor nitragen axide. (Explain anticipated emission benefits and assumptions)
	Projects with the most efficient dollar per ton cost/benefit (utilizing an analysis that takes into account the life cycle of the project),
	Projects with air quality benefits to be realized within 3 years. (What is the schedule of implementation).
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	Projects with air quality benefits to be realized within 3 years. (What is the schedule of implementation).
	Projects with air quality benefits to be realized within 3 years. (What is the schedule of implementation).
P ro v	Projects with air quality benefits to be realized within 3 years. (What is the schedule of implementation). FICATION OF PROJECT SPONSOR: I hereby certify that the proposed project described a supported by the and that the said entity is willing ide the required funding match; enter into a maintenance agreement for the project with the integrated agency and/or port other actions necessary to fully implement and operate (if appropriate) the proposed
Prov ropr Supp ject	FICATION OF PROJECT SPONSOR: I hereby certify that the proposed project described and that the said entity is willing ride the required funding match; enter into a maintenance agreement for the project with the riate agency and/or

Deadline for submitting applications is April 27th. Applications received after this date will not be processed in this year's prioritization.

Emission Reduction Calculation Methodology

Replacement of Old Buses

The emission reductions are the difference between emissions associated with the operation of the old bus minus emissions associated with the new bus. The estimated average daily VMT for the old bus is multiplied by the appropriate VMT factor based on the age of the bus. (see MOBILE30 factors). The N0x bus emissions factor for a bus purchased in 1990 is 22.051 grams/mile. Because the bus purchases are being requested in the 2005/2006 FY we are using emission factors for year 2005. The average daily VMT for one bus is 517.5.

The formula for estimating VMT is as follows:

3 trips/hr x 15 hrs of operation x 11.5 miles/trip = 517.5 miles 517.5 miles x 20 buses = 10,350 V/V(T

Assumptions for emissions rates:

- Based on MOBILE50
- Average travel speed 27 mph
- Old Buses (Model Yr. 1990) emission factors HC 2.097; CO 12.41; and NOx – 11.65.
- New Buses (Model Yr. 2004/2005) emission factors HC 2.066; CO 9.611; and NOx 3.746.
- All emissions factors are calculated in grams per mile.

Formula for calculating emissions reduction:

(Bus VMT) (Old bus emis factor) minus (bus VMT) (new bus emis factor)

HC Reduction = (10,350) + (2.097) - (10,350) + (2.066)Daily: 21,704 - 21,383 = 321 gm (0.321 kg)

Annual: (321/1000) + 312 = 100.15 kg

CO Reduction = (10,350) * (12.41) - (10,350) * (9.611)

Daily: 128,444 - 99,474 = 28,970 gan (28.97 kg)

Annual: (28,970/1000) *312 = 9.038.64 kg

NOx Reduction = (10,350) * (11.65) - (10,350) * (3.746)

Daily: 120,578 - 38,771 = 81,807 gm (81.81 kg)

Annual: (81,307 / 1000) * 312 = 25,523.78 kg

CMAQ PROJECT EVALUATION METHODOLGY

EVALUATION CRITERIA:	WEIGHT FACTOR
la.Projects that remove vehicles from the road	<u>4.0</u> 3.5
Or Control of the Con	
1b. Projects that reduce travel delay(include multi-modal benefits)	3.0
2.Outreach projects that change the public's driving behavior;	2.5
3a.Projects with quantitative emission reduction benefit for the ozone precursors nitrogen oxide;	2.5
3b.Projects with a qualitative emission reduction benefit for the ozone precursors nitrogen oxide or volatile organic compounds;	2.0
4. Projects with the most efficient dollar per ton cost/benefit (utilizing an analysis that takes into account the life cycle of the project);	3.5 2.5

FINAL RANKING

5. Projects with air quality benefits to be realized within 3 years:

After each project has been scored, the projects will be ranked into three categories (I-ligh, Medium and Low).

1.0 3.5

CMAQ PROJECT EVALUATION FORM

PROJECT:				
			(1-5)	
EVALUATION CRITERIA:	WEI	WEIGHT	EVAL	SCORE
la.Projects that remove vehicles from the road;	4.0	×	II 	
1b.Projects that reduce travel delay(include multi-modal benefits)	3.0	×		
2. Outreach Projects that change the public's driving behavior;	2.5	×	II.	
3a. Projects with quantitative emission reduction benefit for the ozone precursors nitrogen oxide;	2.5	×	"	
3b Projects with a qualitative emission reduction benefit for the ozone precursors nitrogen oxide or volatile organic compounds;	2.0	×	11	
4. Projects with the most efficient dollar per ton cost/benefit figure in terms of nitrogen oxide;	3.5	×	u 	
5. Projects with air quality benefits to be realized within 3 years;	1.0	×	1	
COMMEN1'S:	TOT	Total score	ORE	

REVIEWER

05/03/01