

DISTRICT

# County Program Manager Fund Expenditure Plan Guidance For Fiscal Year Ending 2022

# Transportation Fund for Clean Air



Bay Area Air Quality Management District 375 Beale Street, Suite 600, San Francisco, CA 94105 Issued December 2020

# TABLE OF CONTENTS

Transportation Fund for Clean Air (TFCA)	2
Updates from Fiscal Year Ending (FYE) 2021 to FYE 2022	
Bay Area County Program Manager Liaisons	3
TFCA County Program Manager Fund	4
Roles and Responsibilities	
Eligible TFCA Project Types	
Attributes of Cost-Effective Projects	5
Attributes of Projects that Meet the "Readiness" Policy	
Program Schedule	7
Expenditure Plan Application Process	
Programming of Funds	
Reporting Forms	8
Additional Information	10
Appendix A: Guidelines for Eligible TFCA Reimbursable Costs	11
Appendix B: Sample Expenditure Plan Application	13
Appendix C: Sample Funding Status Report Form	15
Appendix D: Board-Adopted Policies for FYE 2022	16
Appendix E: Glossary of Terms	25
Appendix F: Insurance Guidelines	26
Appendix G: Sample Project Information Form	28
Appendix H: Instructions for Cost-Effectiveness Worksheets	29

# Transportation Fund for Clean Air (TFCA)

Vehicle emissions represent the largest contributor to unhealthful levels of ozone (summertime "smog") and particulate matter and on-road motor vehicles, including cars, trucks, and buses, constitute the most significant sources of air pollution in the Bay Area.

To protect public health, the California State Legislature enacted the California Clean Air Act in 1988. Pursuant to this law, the Bay Area Air Quality Management District (Air District) has adopted the 2017 Clean Air Plan (CAP), which describes how the region will work toward compliance with State and Federal ambient air quality standards and make progress on climate protection. To reduce emissions from motor vehicles, the 2017 CAP includes transportation control measures (TCMs) and mobile source measures (MSMs). A TCM is defined as "any strategy to reduce vehicle trips, vehicle use, vehicle miles traveled, vehicle idling, or traffic congestion for the purpose of reducing motor vehicle emissions." MSMs encourage the retirement of older, more polluting vehicles and the introduction of newer, less polluting motor vehicle technologies.

In 1991, the California State Legislature authorized the Air District to impose a \$4 surcharge on motor vehicles registered within the Bay Area to fund projects of TCMs and MSMs. The Air District allocates this revenue through its Transportation Fund for Clean Air (TFCA) program to fund eligible projects and programs. The statutory authority and requirements of the TFCA program are set forth in California Health and Safety Code (HSC) Sections 44241 and 44242.

TFCA-funded projects have many benefits, for example:

- $\sqrt{}$  Reducing air pollution, including air toxics such as benzene and diesel particulates
- √ Conserving energy and helping to reduce greenhouse gas emissions
- √ Improving water quality by decreasing contaminated runoff from roadways.
- $\sqrt{\phantom{a}}$  Improving transportation options
- √ Reducing traffic congestion

Forty percent (40%) of these TFCA funds are pass-through funds to the designated county program manager in each of the nine counties within the Air District's jurisdiction based on the county's proportionate share of fee-paid vehicle registration ("County Program Manager Fund"). The remaining sixty percent (60%) of these funds are awarded by the Air District to eligible projects and programs implemented directly by the Air District and to a grant program known as the Regional Fund.

This document provides guidance on the expenditure of the TFCA County Program Manager Fund.

# Updates from Fiscal Year Ending (FYE) 2021 to FYE 2022

Air District staff brings updates to the TFCA County Program Manager Fund Policies for Board approval annually. Based on feedback and comments received during the public comment period, the following updates have been made:

- Increased the cost-effectiveness limit for alternative fuel infrastructure, shuttle/feeder bus service, infrastructure improvements for trip reduction, and arterial management;
- Adjusted policy #6, Readiness, to allow more time for projects to commence;
- Clarify that vehicles are not required to be maintained and operated 100% within the Air District's jurisdiction;
- Broaden the definition of eligible vehicles for On-Road Truck Replacements to include all on-road trucks:
- Align bikeway projects with other infrastructure projects' requirement to complete all applicable environmental reviews before funds can be committed;
- Rename policy #33 to Infrastructure Improvements for Trip Reduction to clarify the intent, which is to support improvements that result in motor vehicle emission reductions; and
- Add policy #34, Telecommuting, as a new project category.

# Bay Area County Program Manager Liaisons

County	Contact	Email		
Alameda	Jacki Taylor	jtaylor@alamedactc.org		
Contra Costa	Peter Engel	pengel@ccta.net		
Marin	Scott McDonald	SMcDonald@tam.ca.gov		
Napa Diana Meehan		dmeehan@nvta.ca.gov		
Santa Clara Bill Hough		Bill.Hough@vta.org		
San Francisco	Mike Pickford	mike.pickford@sfcta.org		
San Mateo	Kim Wever	kwever@smcgov.org		
Solano	Brent Rosenwald	brosenwald@sta.ca.gov		
Sonoma	Dana Turréy	dana.turrey@scta.ca.gov		

# TFCA County Program Manager Fund

# Roles and Responsibilities

# County Program Managers are required to do the following:

- 1. Administer funding in accordance with applicable legislation, including HSC Sections 44233, 44241, and 44242, and with Air District Board-Adopted TFCA County Program Manager Fund Policies for FYE 2022 (found in Appendix D).
- 2. Hold one or more public meetings each year
  - a. to adopt criteria for the expenditure of the funds if those criteria have been modified in any way from the previous year (criteria must include the Air District Board-Approved TFCA County Program Manager Fund Policies)<sup>1</sup>, and
  - b. to review the expenditure of revenues received.
- 3. Prepare and submit Expenditure Plan Applications, Project Information Forms, Cost-Effectiveness Worksheets, Funding Status Reports, Interim Project Reports, and Final Reports to the Air District.
- 4. Provide funds to only projects that comply with the Air District Board-Approved Policies and/or that have received Air District Board of Director's approval for award.
- 5. Encumber and expend funds within two years of the receipt of funds, unless an application for funds states that the project will take a longer period of time to implement and an extension is approved by the Air District or the County Program Manager, or unless the time is subsequently extended if the recipient requests an extension and the County Program Manager finds that significant progress has been made on the project. The County Program Manager is responsible for tracking and monitoring its administrative costs and Grantees' reimbursement costs. All costs incurred must be based on actual costs (e.g., timecards) not estimated costs.
- 6. Limit administrative costs in handling of TFCA funds to no more than 6.25 percent of the actual funds received, or funds allocated in the funding agreement, whichever method the County Program Manager has historically administered.
- 7. Allocate (i.e., program) all new TFCA funds within six months of the date of the Air District Board of Director's approval of the Expenditure Plan.
- 8. Provide information to the Air District and to auditors on the expenditures of TFCA funds.

# **Air District** is required to do the following:

- 1. Hold a public hearing to
  - a. Adopt cost-effectiveness criteria that projects and programs are required to meet. Criteria shall maximize emission reductions and public health benefits; and
  - b. Allocate County Program Managers' share of DMV fee revenues.
- 2. Provide guidance, offer technical support, and hold workshops on program requirements, including cost-effectiveness.
- 3. Review Expenditure Plan Applications, Cost-Effectiveness Worksheets, Project Information Forms, Funding Status Reports, Interim Project Reports, and Final Reports.

<sup>&</sup>lt;sup>1</sup> California Senate Bill 491. *Transportation: omnibus bill*. Retrieved from <a href="https://leginfo.legislature.ca.gov/">https://leginfo.legislature.ca.gov/</a>. Approved by Governor on October 2, 2015.

- 4. Re-distribute unallocated TFCA funds from the County Program Manager Fund.
- 5. Limit TFCA administrative costs to a maximum of 6.25 percent of the County Program Manager funds.
- 6. Conduct audits of TFCA programs and projects.
- 7. Hold a public hearing in the case of any misappropriation of revenue.

# **Eligible TFCA Project Types**

TFCA legislation requires that projects meet eligibility requirements, as described in the California HSC Section 44241. The following is a complete list of mobile source and transportation control project types authorized under the California HSC Section 44241(b):

- 1. The implementation of ridesharing programs;
- 2. The purchase or lease of clean fuel buses for school districts and transit operators;
- 3. The provision of local feeder bus or shuttle service to rail and ferry stations and to airports;
- 4. Implementation and maintenance of local arterial traffic management, including, but not limited to, signal timing, transit signal preemption, bus stop relocation and "smart streets";
- 5. Implementation of rail-bus integration and regional transit information systems;
- 6. Implementation of demonstration projects in telecommuting and in congestion pricing of highways, bridges, and public transit;
- 7. Implementation of vehicle-based projects to reduce mobile source emissions, including, but not limited to, engine repowers, engine retrofits, fleet modernization, alternative fuels, and advanced technology demonstrations;
- 8. Implementation of a smoking vehicles program;
- 9. Implementation of an automobile buy-back scrappage program operated by a governmental agency;
- 10. Implementation of bicycle facility improvement projects that are included in an adopted countywide bicycle plan or congestion management program; and
- 11. The design and construction by local public agencies of physical improvements that support development projects and that achieve motor vehicle emission reductions. The projects and the physical improvements shall be identified in an approved area-specific plan, redevelopment plan, general plan, or other similar plan.

## TFCA funds may not be used for:

- Planning activities that are not directly related to the implementation of a specific project; or
- The purchase of personal computing equipment for an individual's home use.

# **Attributes of Cost-Effective Projects**

- √ Project uses the best available technology or cleanest vehicle (e.g., achieves significant petroleum reduction, utilizes vehicles that have 2010 or newer engines, is not a Family Emission Limit (FEL) engine, and/or have zero tailpipe emissions).
- √ Project is placed into service within one year and/or significantly in advance of regulatory changes (e.g., lower engine emission standards).
- √ Project requests relatively low amounts of TFCA funds (grantee provides significant matching funds).

- √ The following are additional attributes of cost-effective projects for specific project categories:
  - For vehicle trip reduction projects (e.g., bike facilities, shuttle/feeder bus service, ridesharing):
    - Project serves relatively large percentage of riders/participants who otherwise would have driven alone over a long distance.
    - Project provides "first- and last-mile" connection between employers and transit.
    - Service operates on a route (service and non-service miles) that is relatively short in distance.
  - For pilot trip reduction projects (excluding pilot shuttle/feeder bus service projects):
    - Project reduces single-occupancy commute-hour vehicle trips. Service operates in areas that are underserved and lack other comparable service in past three years, or significantly expands service to an existing area. If multiple transit agencies provide service in the project area, the relevant transit agencies must have been given the first right of refusal and determined that the proposed project does not conflict with existing service.
    - Service is designed to be self-sustaining or require minimal TFCA funds by the end of the project's operational period.
    - Services connects users to mass transit.
  - o For vehicle-based projects:
    - Vehicle has high operational use, annual mileage, and/or fuel consumption (e.g., taxis, transit fleets, utility vehicles). A vehicle can operate outside the Air District, but only the operation within the Air District will be counted towards the air emissions reduced.
  - For arterial management and smart growth projects:
    - Pre- and post-project counts demonstrate high usage and potential to shift mode or travel behavior that reduces emissions.
    - Project demonstrates a strong potential to reduce motor vehicle trips by significantly improving mobility via walking, bicycling, and improving transit.
    - Project is located along high-volume transit corridors and/or is near major activity centers such as schools, transit centers, civic or retail centers.
    - Project is associated with a multi-modal transit center, supports high-density mixed-use development or communities.

# Attributes of Projects that Meet the "Readiness" Policy

The intent of TFCA is to fund projects that achieve surplus emission reductions within two years. County Program Managers may grant a two-year extension, for a total of four years to implement projects.

The following is a list of activities that should be completed prior to awarding TFCA funds to ensure the successful completion of projects:

- Planning (e.g., design)
- Jurisdictional approval (e.g., permits)
- Legislative approvals (e.g., CPUC)
- Environmental review/approvals (e.g., EIR, negative declaration)

# **Program Schedule**

**Program Schedule for the FYE 2022 Cycle** (County Program Manager deadlines are italicized)

Expenditure Plan Application Guidance issued by Air District  Expenditure Plan Application funding estimates issued by Air District  Deadline for County Program Manager to email and postmark
Deadline for County Program Manager to email and postmark
Expenditure Plan Application, which includes:
<ul> <li>Summary Information Form, signed and dated by County Program Manager's Executive Director</li> <li>Summary Information Addendum Form (if applicable)</li> </ul>
Proposed Expenditure Plan funding allocations reviewed by Air District's Mobile Source Committee
Expenditure Plan funding allocations considered for approval by Air District's Board of Directors
Air District provides Funding Agreements for funding allocations to County Program Managers for signature
Deadline for County Program Manager to email or postmark reports for projects from FYE 2021 and prior years:
<ul> <li>Funding Status Report – Include all open projects and projects closed since July 1.</li> <li>Final Report – For projects closed July 1-December 31 (and optionally those closing later), submit both a Final Report Form and a final Cost-Effectiveness Worksheet</li> </ul>
Within three months of Air District Board approval, deadline for County Program Manager to email request for Board approval of any projects that do not conform to TFCA policies:
<ul> <li>Project Information Form (sample can be found in Appendix G)</li> <li>Cost-Effectiveness Worksheet (instructions can be found in Appendix H)</li> </ul>
Estimated time of first FYE 2022 payment
Deadline for County Program Manager to email or postmark reports for projects from FYE 2021 and prior years:
<ul> <li>Interim Project Report – Submit this form for every open project.</li> <li>Funding Status Report – Include all open projects and projects closed since January 1.</li> <li>Final Report – For projects closed January 1-June 30 (and optionally those closing later), submit both a Final Report Form and a final</li> </ul>

November 5, 2021 (tentative)	Within six months of Air District Board approval, deadline for County Program Manager to email reports for each new FYE 2022 project:  • Project Information Form (sample can be found in Appendix G) • Cost-Effectiveness Worksheet (instructions can be found in
	Appendix H)
May 31, 2022	Deadline for County Program Manager to email or postmark reports for projects from FYE 2022 and prior years:
	<ul> <li>Funding Status Report – Include all open projects and projects closed since July 1.</li> <li>Final Report – For projects closed July 1-December 31 (and optionally those closing later), submit both a Final Report Form and a final Cost-effectiveness Worksheet</li> </ul>

*Note*: Items due on dates that fall on weekends or on State/Federal holidays are due the next following business day.

# **Expenditure Plan Application Process**

The Air District will provide County Program Managers the Summary Information Form and Summary Information - Addendum Form (i.e., the Expenditure Plan application materials). These forms must be completed by the County Program Manager and returned to the Air District as indicated below. See Appendix B for examples of these forms.

Expenditure Plans must be submitted electronically via email to Hannah Cha at hcha@baaqmd.gov.

Materials sent to the Air District via fax will not be accepted.

# **Programming of Funds**

County Program Managers must allocate (i.e., program) TFCA funds within *six months* of Air District Board approval of a County Program Manager's Expenditure Plan and submit electronic copies of: 1) the Costeffectiveness Worksheet and 2) the Project Information Form for each new project. Any unallocated funds must be returned to the Air District for programming.

**Non-conforming projects:** Policy #3 provides a mechanism for consideration of projects that are authorized in the TFCA legislation and meet the cost-effectiveness requirement for that project type, but are in some way inconsistent with the current-year TFCA County Program Manager Fund Policies. To request that such a project be considered for approval by the Air District, County Program Managers must submit a Cost-Effectiveness Worksheet, Project Information Form, and supporting documentation to the Air District for review no later than *three months* after Air District Board's approval of the Expenditure Plan. (See the Program Schedule section for further details.)

# **Reporting Forms**

The following Air District-approved forms will be emailed to the County Program Managers or posted on either the Air District's website at <a href="https://www.baaqmd.gov/tfca4pm">www.baaqmd.gov/tfca4pm</a> or another online platform.

• <u>Cost-Effectiveness Worksheet</u> (due within six months of Air District Board approval of Expenditure Plan, and for FYE 2022 and prior year projects, with the Final Report; see Appendix H)

The purpose of the Cost-Effectiveness Worksheet is to calculate estimated (pre-project) and realized (post-project) emissions reduced for each project and to compare the emissions reductions to the TFCA

funds invested. County Program Managers must submit a worksheet for each new project and must ensure that the TFCA cost-effectiveness is equal to or less than the Board-approved TFCA cost-effectiveness limit, **as specified in Policy #2.** County Program Managers must submit a Cost-effectiveness Worksheet in Microsoft Excel format for each project to the Air District pre- and post-project. Post-project evaluations should be completed using the version of the Cost-Effectiveness Worksheet for the year the purchased, installed, or constructed project became available for use by the public.

Instructions for completing the worksheets are found in Appendix H. If you do not use the Air District's default guidelines to determine a project's cost-effectiveness, then you **must provide documentation and information to support alternative values and assumptions** to the Air District for review, evaluation, and approval. Data used to support the project should be the most recent data available.

- Pre-project cost-effectiveness worksheets must be submitted in a Microsoft Excel spreadsheet with the filename structure listed below.
  - [Last two digits of FYE][abbreviated county code][sequential project number]\_CE-Submitted-[Project Name].xlsx
  - Example: 22SC12\_CE-Submitted-SanJoseZeroEmissionShuttle.xlsx

# • <u>Project Information Form</u> (due within six months of Air District Board approval of Expenditure Plan; see Appendix G)

The primary purpose of the Project Information Form is to provide a description of each project funded and other applicable (including technical) information that is not captured in the cost-effectiveness worksheet. A copy of this form and instructions for completing it are found in Appendix G. Project Information Forms must be submitted for all projects requesting funding, and a revised Project Information Form must be submitted whenever changes are approved by the County Program Manager that affect the information stated on this form.

- Information Forms must be submitted in a Microsoft Word document with the filename structure listed below.
  - [Last two digits of FYE][abbreviated county code][sequential project number]\_ProjInfo-[Project Name].docx
  - Example: 22SC12\_ProjInfo-SanJoseZeroEmissionShuttle.docx

## Biannual Funding Status Report Form (due October 31 and May 31; see Appendix C)

This form is used to provide an update on all open and recently closed projects (closed since January 1 for the October 31 report and closed since July 1 for the May 31 report) and report any changes in status for all projects, including cancelled, completed under budget, received supplemental funding, or received a time extension during the previous six months. A sample form is provided in Appendix C.

# • Final Report Form (due October 31 and May 31)

A Final Report Form is due at the conclusion of every project. The Final Report Forms are specific to each type of project. Final Report Forms are due to the Air District semi-annually as follows:

- > **Due October 31:** Projects that closed Jan 1–Jun 30 (and optionally those closing later)
- > **Due May 31:** Projects that closed Jul 1–Dec 31 (and optionally those closing later)

# Annual <u>Interim Project Report Form</u> (due October 31)

For each active/open project, an Interim Project Report Form is due annually on October 31. This report provides status information on project progress and fund usage.

County Program Managers may also choose to require additional reports of Grantees.

# **Additional Information**

# Workshops, Support, and Assistance

Air District staff is available to assist with TFCA project cost-effectiveness analysis, workshops for Grantees, and outreach for TFCA projects. County Program Managers are urged to consult with Air District staff when evaluating complex projects (such as bike share, vehicle, and vehicle infrastructure projects requiring the evaluation of emission reductions beyond those required by regulations) or when using cost-effectiveness assumptions other than those provided by the Air District in this Guidance. Consulting with the Air District prior to awarding funds minimizes the risk of both funding projects that are not eligible for TFCA funds and awarding more funding to a project than it is eligible for. Please contact us and let us know how we can assist you.

#### **Air District Contact**

Please direct questions to: Hannah Cha, Staff Specialist, hcha@baaqmd.gov

# Appendix A: Guidelines for Eligible TFCA Reimbursable Costs

The TFCA-enabling legislation allows vehicle registration fees collected for the program to be used for project implementation costs, as well as administrative project costs. This appendix provides guidance on differentiating and reporting these costs. The Air District will use the definitions and interpretations discussed below in the financial accounting of the TFCA program. The Air District conducts audits on TFCA-funded projects to ensure that the funds have been spent in accordance with the program guidelines and policies.

# **Project Implementation Costs**

Project implementation costs are charges associated with implementing a TFCA-funded project including:

- Documented hourly labor charges (salaries, wages, and benefits) directly and solely related to implementation of the TFCA project;
- Capital equipment and installation costs;
- Shuttle driver labor and equipment maintenance costs;
- Contractor labor charges related to the TFCA project;
- Travel, training, and associated personnel costs that are directly related to the implementation of the TFCA-funded project (e.g., the cost of training mechanics to service TFCA-funded natural gas clean air vehicles); and
- Indirect costs associated with implementing the project, including reasonable overhead costs incurred to provide a physical place of work (e.g., rent, utilities, office supplies), general support services (e.g., payroll, reproduction), and managerial oversight. Grantees should itemize these costs and, for each item, provide evidence that it supports the implementation of the project.

To determine if an indirect cost falls under the administrative or implementation costs, the reviewer should look at the cost in the larger context of the project type. For example, a printer can be purchased and used for (1) a project which installs a charging station versus (2) an outreach project. In the first instance, the printer is an administrative cost since the printer is not used directly as part of the charging station project; implementing the charging station project can be completed without the printer. In the second instance, the printer could be an implementation cost as a part of the project scope if the printer is used to print outreach materials related to the project; the printer is an integral part of the outreach project.

# Administrative Project Costs for Grantees<sup>2</sup>

Administrative project costs are costs associated with the administration of a TFCA project, and do not include project capital or operating costs, as discussed above. As best practice, we recommend that administrative project costs that are reimbursable to a Grantee are limited to a maximum of 6.25% of the total TFCA funds received.

Administrative project costs are limited to the following activities that have documented hourly labor and overhead costs (salaries, wages, and benefits). Hourly labor charges must be expressed on the basis of hours worked on the TFCA project.

- Costs associated with administering the TFCA Funding Agreement (e.g., responding to requests for
  information from Air District and processing amendments). Note that costs incurred in preparation
  of a TFCA application or costs incurred prior to the execution of the Funding Agreement are not
  eligible for reimbursement;
- Accounting for TFCA funds;

<sup>&</sup>lt;sup>2</sup> This section applies to the Grantee. The County Program Manager's own administrative costs are discussed in County Program Roles and Responsibilities.

- Fulfilling all monitoring, reporting, and record-keeping requirements specified in the TFCA Funding Agreement, including the preparation of reports, invoices, and final reports; and
- Documented indirect administrative costs associated with administrating the project, including reasonable overhead costs of utilities, office supplies, reproduction and managerial oversight. These costs should be itemized and for each item provide evidence that it supports the administration of the project.

#### **Reimbursement Procedure**

The County Program Manager must track and monitor Grantees reimbursement costs, including the following:

- Project implementation and administrative project costs that are approved by the County Program Manager shall be described in a Funding Agreement with the Grantee.
- The Grantee may seek reimbursement for project implementation and administrative project costs by providing proper documentation with project invoices. Documentation for these costs will show how these costs were calculated, for example, by listing the date when the hours were worked, employees' job titles, employees' hourly pay rates, tasks being charged, and total charges.
   Documentation of hourly charges may be provided with time sheets or any other generally accepted accounting method to allocate and document staff time.
- It is the County Program Manager's responsibility to review reimbursement requests for proper documentation, such as itemized timesheets/time tracking, before reimbursing the Grantee.
- All costs reimbursed by TFCA, including Administrative Cost, are required to be included in the Cost-Effectiveness Worksheet.

# Appendix B: Sample Expenditure Plan Application

**Summary Information** County Program Manager Agency Name: Address: Total (Project + **PART A: NEW TFCA FUNDS** Admin (default 6.25%) Admin) Project Estimated FYE 2022 DMV revenues (based on projected CY2020 revenues): Line 1 Difference between prior-year estimate and actual revenue: \$ Line 2 a. Actual FYE 2020 DMV revenues (based on CY2019): b. Estimated FYE 2020 DMV revenues: 2b ('a' minus 'b' equals Line 2.) Estimated New Allocation (Sum of Lines 1 and 2): Line 3 PART B: INTEREST FOR PROGRAMMING AND TFCA FUNDS AVAILABLE FOR REPROGRAMMING Total available for programming/reprogramming to other projects. Line 4 a. Amount available from previously funded projects: 4a b. Admin expended in FYE 2020: 4b c. Interest income earned on TFCA funds in CY 2020: 4c \$ (Project equals '4a' plus '4c' equals Line 4. Admin equals '2a' minus '4b'.) PART C: TOTAL AVAILABLE TFCA FUNDS Total Available TFCA Funds (Sum of Lines 3 and 4) Line 5 I certify that, to the best of my knowledge, the information contained in this application is complete and accurate. Executive Director Signature

<sup>[1]</sup> The "Estimated TFCA funds budgeted for administration" amount is listed for informational purposes only. Per California Health and Safety Code Section 44233, County Program Managers must limit their administrative costs to no more than 6.25% of the actual total revenue received from the Air District.

# **SUMMARY INFORMATION – ADDENDUM**

Complete if there are TFCA Funds available for reprogramming.

Project #	Project Sponsor/ Grantee	Project Name	\$ TFCA Funds Allocated	\$ TFCA Funds Expended	\$ TFCA Funds Available	Code*

TOTAL TFCA FUNDS AVAILABLE FOR RI	EPROGRAMMING
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\$	

(Enter this amount in Part B, Line 4.a. of Summary Information form)

<sup>\*</sup> Enter UB (for projects that were completed under budget) and CP (for cancelled projects).

# Appendix C: Sample Funding Status Report Form

ounty Prog	gram Manager:				Re	port Period:	May 31s	st ×	Oct.	31st						
ite:																
					CP	Cancelled Pro	iect1		Undate	by CMA						
						Cmpl Under E					Database					
ease prov	vide any updated information in th	e vellow columns. If					d should be liste	d as a negative	; a balar	nce from						
	other cells, please shade them ye						budget listed as									
					Column B	100% = All co	mponents/report	s completed, ap	proved a	and \$ pai	d out					
						90% = All com	ponents comple	ted; \$ paid out;	awaiting	Final Re	port					
					Α				В							
TFCA roject#	Project Title	Project Sponsor	Current TFCA Funds Awarded	Current TFCA Funds Awarded per CMA Update	Funds from CP/UB	TFCA\$ Reprgm to Project# or FY	TFCA\$ Paid Out To Date	TFCA\$ Paid Out per CMA Update	% Cmpl	% Cmpl per CMA Update	Project Completion Date	Project Completion Date per CMA Update	Final Rpt Due to CMA per Agrmnt	Final Rpt Due to CMA per Agrmnt per CMA Update	Date of First Check	Comments
$\exists$																
$\dashv$																
	(print name), certify th	at the information provided	is complete and	correct; and tha	at if any extens	sions have bee	en approved, tha	it significant pr	ogress h	nas been	made on the	project(s) for v	vhich the fund	s were grante	d, pursuant to	HSC 44242(d).
	(signature)															
nty Prog	gram Manager Liaison															

# Appendix D: Board-Adopted Policies for FYE 2022

# Adopted November 18, 2020

The following Policies apply to the Bay Area Air Quality Management District's (Air District) Transportation Fund for Clean Air (TFCA) County Program Manager Fund for fiscal year ending (FYE) 2022.

## **BASIC ELIGIBILITY**

1. **Reduction of Emissions:** Only projects that result in the reduction of motor vehicle emissions within the Air District's jurisdiction are eligible.

Projects must conform to the provisions of the California Health and Safety Code (HSC) sections 44220 et seq. and these Air District Board of Directors adopted TFCA County Program Manager Fund Policies.

Projects must achieve surplus emission reductions, i.e., reductions that are beyond what is required through regulations, ordinances, contracts, and other legally binding obligations at the time of the execution of a grant agreement between the County Program Manager and the grantee. Projects must also achieve surplus emission reductions at the time of an amendment to a grant agreement if the amendment modifies the project scope or extends the project completion deadline.

2. TFCA Cost-Effectiveness: Projects must not exceed the maximum cost-effectiveness (C-E) limit specified in Table 1. Cost-effectiveness (\$/weighted ton) is the ratio of TFCA funds awarded to the sum of surplus emissions reduced, during a project's operational period, of reactive organic gases (ROG), nitrogen oxides (NOx), and weighted PM10 (particulate matter 10 microns in diameter and smaller). All TFCA-generated funds (e.g., reprogrammed TFCA funds) that are awarded or applied to a project must be included in the evaluation. For projects that involve more than one independent component (e.g., more than one vehicle purchased, more than one shuttle route), each component must achieve this cost-effectiveness requirement.

County Program Manager administrative costs are excluded from the calculation of a project's TFCA cost-effectiveness.

Table 1: Maximum Cost-Effectiveness for TFCA County Program Manager Fund Projects

Policy No.	Project Category	Maximum C-E (\$/weighted ton)
22	Alternative Fuel Light- and Medium-Duty Vehicles	500,000
23	Reserved	Reserved
24	Alternative Fuel Heavy-Duty Trucks and Buses	500,000
25	On-Road Truck Replacements	90,000
26	Alternative Fuel Infrastructure	500,000
27	Ridesharing Projects – Existing	150,000
28	Shuttle/Feeder Bus Service – Existing	200,000; 250,000 for services in CARE Areas or PDAs

29.a.	Shuttle/Feeder Bus Service — Pilot shuttle projects  not in CARE Areas or PDAs. These projects will be evaluated every year.	Year 1 - 500,000 Year 2 and beyond - see Policy #28 shuttle is considered existing
	Shuttle/Feeder Bus Service — Pilot shuttle projects located in Highly Impacted Communities as defined in the Air District CARE Program and/or a Planned or Potential PDA may receive TFCA Funds under the Pilot designation. These projects will be evaluated every year.	Years 1 & 2 - 500,000 Year 3 and beyond - see Policy #28 shuttle is considered existing
29.b.	Pilot Trip Reduction	500,000
30.a.	Bicycle Parking	250,000
30.b.	Bikeways	500,000
31	Bike Share	500,000
32	Arterial Management	250,000
33	Infrastructure Improvements for Trip Reduction	250,000
34	Telecommuting	150,000

- 3. **Eligible Projects and Case-by-Case Approval:** Eligible projects are those that conform to the provisions of the HSC section 44241, Air District Board-adopted policies, and Air District guidance. On a case-by-case basis, County Program Managers must receive approval by the Air District for projects that are authorized by the HSC section 44241 and achieve Board-adopted TFCA cost-effectiveness but do not fully meet other Board-adopted Policies.
- 4. Consistent with Existing Plans and Programs: All projects must comply with the Transportation Control and Mobile Source Control Measures included in the Air District's most recently approved strategies for achieving and maintaining State and national ozone standards (2017 Clean Air Plan), those plans and programs established pursuant to HSC sections 40233, 40717, and 40919; and, when specified, other adopted federal, State, regional, and local plans and programs.
- 5. **Eligible Recipients:** Grant recipients must be responsible for the implementation of the project, have the authority and capability to complete the project, and be an applicant in good standing with the Air District (Policies #8-10).
  - a. **Public agencies** are eligible to apply for all project categories.
  - b. **Non-public entities** are eligible to apply for only new alternative-fuel (light, medium, and heavy-duty) vehicle and infrastructure projects, and advanced technology demonstrations that are permitted pursuant to HSC section 44241(b)(7).
- 6. **Readiness:** Projects must commence by the end of calendar year 2022 or within 24 months from the date of execution of the funding agreement with the subgrantee. For purposes of this policy, "commence" means a tangible preparatory action taken in connection with the project's operation or implementation, for which the grantee can provide documentation of the commencement date and action performed. "Commence" includes, but is not limited to, the issuance of a purchase order to secure project vehicles and equipment, commencement of shuttle/feeder bus and ridesharing service, or the delivery of the award letter for a construction contract.

7. Maximum Two Years Operating Costs for Service-Based Projects: Unless otherwise specified in policies #22 through #33, TFCA County Program Manager Funds may be used to support up to two years of operating costs for service-based projects (e.g., ridesharing, shuttle and feeder bus service). Grant applicants that seek TFCA funds for additional years must reapply for funding in the subsequent funding cycles.

## **APPLICANT IN GOOD STANDING**

- 8. Independent Air District Audit Findings and Determinations: Grantees who have failed either the financial statement audit or the compliance audit for a prior TFCA-funded project awarded by either County Program Managers or the Air District are excluded from receiving an award of any TFCA funds for three (3) years from the date of the Air District's final audit determination in accordance with HSC section 44242 or for a duration determined by the Air District Air Pollution Control Officer (APCO). Existing TFCA funds already awarded to the project sponsor will not be released until all audit recommendations and remedies have been satisfactorily implemented. A failed financial statement audit means a final audit report that includes an uncorrected audit finding that confirms an ineligible expenditure of TFCA funds. A failed compliance audit means an uncorrected audit finding that confirms a program or project was not implemented in accordance with the applicable Funding Agreement or grant agreement.
  - A failed financial statement or compliance audit of the County Program Manager or its grantee may subject the County Program Manager to a reduction of future revenue in an amount equal to the amount which was inappropriately expended pursuant to the provisions of HSC section 44242(c)(3).
- 9. Authorization for County Program Manager to Proceed: Only a fully executed Funding Agreement (i.e., signed by both the Air District and the County Program Manager) constitutes the Air District's award of County Program Manager Funds. County Program Managers may incur costs (i.e., contractually obligate itself to allocate County Program Manager Funds) only after the Funding Agreement with the Air District has been executed.
- 10. Maintain Appropriate Insurance: Both the County Program Manager and each grantee must obtain and maintain general liability insurance, workers compensation insurance, and additional insurance as appropriate for specific projects, with required coverage amounts provided in Air District guidance and final amounts specified in the respective grant agreements.

# **INELIGIBLE PROJECTS**

- 11. **Duplication:** Projects that have previously received any TFCA funds, e.g., TFCA Regional Funds or County Program Manager Funds, and that do not propose to achieve additional emission reductions are not eligible.
- 12. **Planning Activities:** The costs of preparing or conducting feasibility studies are not eligible. Planning activities are not eligible unless they are directly related to the implementation of a specific project or program.
- 13. Reserved.
- 14. **Cost of Developing Proposals and Grant Applications:** The costs to prepare proposals and/or grant applications are not eligible.

## **USE OF TFCA FUNDS**

15. **Combined Funds**: TFCA County Program Manager Funds may not be combined with TFCA Regional Funds to fund a County Program Manager Fund project. Projects that are funded by the TFCA County Program Manager Fund are not eligible for additional funding from other funding sources that claim emissions reduction credits. However, County Program Manager-funded projects may be combined with funds that do not require emissions reductions for funding eligibility.

- 16. Administrative Costs: The County Program Manager may not expend more than 6.25 percent of its County Program Manager Funds for its administrative costs. The County Program Manager's costs to prepare and execute its Funding Agreement with the Air District are eligible administrative costs. Interest earned on County Program Manager Funds shall not be included in the calculation of the administrative costs. To be eligible for reimbursement, administrative costs must be clearly identified in the expenditure plan application and in the Funding Agreement, and must be reported to the Air District.
- 17. **Expend Funds within Two Years:** County Program Manager Funds must be expended within two (2) years of receipt of the first transfer of funds from the Air District to the County Program Manager in the applicable fiscal year, unless a County Program Manager has made the determination based on an application for funding that the eligible project will take longer than two years to implement. Additionally, a County Program Manager may, if it finds that significant progress has been made on a project, approve no more than two one-year schedule extensions for a project. Any subsequent schedule extensions for projects can only be given on a case-by-case basis, if the Air District finds that significant progress has been made on a project, and the Funding Agreement is amended to reflect the revised schedule.
- 18. **Unallocated Funds:** Pursuant to HSC 44241(f), any County Program Manager Funds that are not allocated to a project within six months of the Air District Board of Directors approval of the County Program Manager's Expenditure Plan may be allocated to eligible projects by the Air District. The Air District shall make reasonable effort to award these funds to eligible projects in the Air District within the same county from which the funds originated.
- 19. Reserved.
- 20. Reserved.
- 21. Reserved.

#### **ELIGIBLE PROJECT CATEGORIES**

# Clean Air Vehicle Projects

# 22. Alternative Fuel Light- and Medium-Duty Vehicles:

These projects are intended to accelerate the deployment of zero- and partial-zero emissions motorcycles, cars, and light-duty vehicles. All of the following conditions must be met for a project to be eligible for TFCA funds:

- a. Vehicles must have a gross vehicle weight rating (GVWR) of 8,500 lbs. or lower;
- b. Vehicles may be purchased or leased;
- Eligible vehicle types include plug-in hybrid-electric, plug-in electric, fuel cell vehicles, and neighborhood electric vehicles (NEV) as defined in the California Vehicle Code. Vehicles must also be approved by the CARB;
- d. Vehicles that are solely powered by gasoline, diesel, or natural gas, and retrofit projects are not eligible;
- e. The total amount of TFCA funds awarded may not exceed 90% of the project's eligible cost; the sum of TFCA funds awarded with all other grants and applicable manufacturer and local/state/federal rebates and discounts may not exceed total project costs;
- f. Grantees may request authorization of up to 100% of the TFCA Funds awarded for each vehicle to be used to pay for costs directly related to the purchase and installation of alternative fueling infrastructure and/or equipment used to power the new vehicle; and

g. Projects that seek to replace a vehicle in the same weight-class as the proposed new vehicle may qualify for additional TFCA funding. Costs related to the scrapping and/or dismantling of the existing vehicle are not eligible for reimbursement with TFCA funds.

#### 23. Reserved.

# 24. Alternative Fuel Heavy-Duty Trucks and Buses:

These projects are intended to accelerate the deployment of qualifying alternative fuel vehicles that operate within the Air District's jurisdiction by encouraging the replacement of older, compliant trucks and buses with the cleanest available technology. If replacing heavy-duty vehicles and buses with light-duty vehicles, light-duty vehicles must meet Policy #22. All of the following conditions must be met for a project to be eligible for TFCA Funds:

- a. Each vehicle must be new and have a GVWR greater than 8,500 lbs.;
- b. Vehicles may be purchased or leased;
- c. Eligible vehicle types include plug-in hybrid, plug-in electric, and fuel cell vehicles. Vehicles must also be approved by the CARB;
- d. Vehicles that are solely powered by gasoline, diesel, or natural gas and retrofit projects are not eligible;
- e. The total amount of TFCA funds awarded may not exceed 90% of the project's eligible cost; the sum of TFCA funds awarded with all other grants and applicable manufacturer and local/state/federal rebates and discounts may not exceed total project costs;
- f. Grantees may request authorization of up to 100% of the TFCA Funds awarded for each vehicle to be used to pay for costs directly related to the purchase and installation of alternative fueling infrastructure and/or equipment used to power the new vehicle; and
- g. Projects that seek to replace a vehicle in the same weight-class as the proposed new vehicle may qualify for additional TFCA funding. Costs related to the scrapping and/or dismantling of the existing vehicle are not eligible for reimbursement with TFCA funds.
- 25. **On-Road Truck Replacements:** These projects will replace Class 6, Class 7, and Class 8 diesel-powered trucks that have a gross vehicle weight rating (GVWR) of 19,501 lbs. or greater (per vehicle weight classification definition used by Federal Highway Administration (FHWA) with new or used trucks that have an engine certified to the 2010 CARB emissions standards or cleaner. The existing truck(s) to be replaced must be registered with the California Department of Motor Vehicles (DMV) to an address within the Air District's jurisdiction and must be scrapped after replacement.
- 26. **Alternative Fuel Infrastructure:** These projects are intended to accelerate the adoption of zero-emissions vehicles through the deployment of alternative fuel infrastructure, i.e., electric vehicle charging sites, hydrogen fueling stations.

Eligible refueling infrastructure projects include new dispensing and charging facilities, or additional equipment or upgrades and improvements that expand access to existing alternative fuel fueling/charging sites. This includes upgrading or modifying private fueling/charging sites or stations to allow public and/or shared fleet access. TFCA funds may be used to cover the cost of equipment and installation. TFCA funds may also be used to upgrade infrastructure projects previously funded with TFCA funds as long as the equipment was maintained and has exceeded the duration of its useful life after being placed into service.

Equipment and infrastructure must be designed, installed, and maintained as required by the existing recognized codes and standards and as approved by the local/state authority.

TFCA funds may not be used to pay for fuel, electricity, operation, and maintenance costs.

# **Trip Reduction Projects**

27. **Existing Ridesharing Services:** The project provides carpool, vanpool, or other rideshare services. Projects that provide a direct or indirect financial transit or rideshare subsidy are also eligible under this category. Projects that provide a direct or indirect financial transit or rideshare subsidy *exclusively* to employees of the grantee are not eligible.

# 28. Existing Shuttle/Feeder Bus Service:

The project reduces single-occupancy vehicle trips by providing short-distance connections between mass transit and commercial hubs or employment centers. All the following conditions must be met for a project to be eligible for TFCA funds:

- a. The service must provide direct connections between a mass transit hub (e.g., a rail or Bus Rapid Transit (BRT) station, ferry or bus terminal, or airport) and a distinct commercial or employment location.
- b. The service's schedule, which is not limited to commute hours, must be coordinated to have a timely connection with corresponding mass transit service.
- c. The service must be available for use by all members of the public.
- d. TFCA funds may be used to fund only shuttle services to locations that are under-served and lack other comparable service. For the purposes of this policy, "comparable service" means that there exists, either currently or within the last three years, a direct, timed, and publicly accessible service that brings passengers to within one-third (1/3) mile of the proposed commercial or employment location from a mass transit hub. A proposed service will not be deemed "comparable" to an existing service if the passengers' proposed travel time will be at least 15 minutes shorter and at least 33% shorter than the existing service's travel time to the proposed destination.
- e. Reserved.
- f. Grantees must be either: (1) a public transit agency or transit district that directly operates the shuttle/feeder bus service; or (2) a city, county, or any other public agency.
- g. Applicants must submit a letter of concurrence from all transit districts or transit agencies that provide service in the area of the proposed route, certifying that the service does not conflict with existing service.
- h. Each route must meet the cost-effectiveness requirement in Policy #2. Projects that would operate in Highly Impacted Communities or Episodic Areas as defined in the Air District Community Air Risk Evaluation (CARE) Program, or in Priority Development Areas (PDAs), may qualify for funding at a higher cost-effectiveness limit (see Policy #2).

# 29. Pilot Projects:

## a. Pilot Shuttle/Feeder Bus Service:

The project provides new shuttle/feeder bus service that is at least 70% unique and operates where no other service was provided within the past three years. In addition to meeting the conditions listed in Policy #28 for shuttle/feeder bus service, project applicants must also comply with the following application criteria and agree to comply with the project implementation requirements:

i. Demonstrate the project will reduce single-occupancy vehicle trips and result in a reduction in emissions of criteria pollutants.

- ii. Provide data and/or other evidence demonstrating the public's need for the service, such as a demand assessment survey and letters of support from potential users.
- iii. Provide a written plan showing how the service will be financed in the future and require minimal, if any, TFCA funds to maintain its operation after the pilot period.
- iv. If the local transit provider is not a partner, the applicant must demonstrate that they have attempted to have the service provided by the local transit agency. The transit provider must have been given the first right of refusal and determined that the proposed project does not conflict with existing service;
- v. Projects located in Highly Impacted Communities as defined in the Air District CARE Program and/or a Planned or Potential PDA may receive a maximum of two years of TFCA County Program Manager Funds under the Pilot designation. For these projects, the project applicants understand and must agree that such projects will be evaluated every year, and continued funding will be contingent upon the projects meeting the following requirements:
  - 1. During the first year and by the end of the second year of operation, projects must not exceed a cost-effectiveness of \$500,000/ton
  - 2. Projects entering a third year of operation and beyond are subject to all of the requirements, including cost-effectiveness limit, of Policy #28 (existing shuttles).
- vi. Projects located outside of CARE areas and PDAs may receive a maximum of two years of TFCA County Program Manager Funds under this designation. For these projects, the project applicant understands and must agree that such projects will be evaluated every year, and continued funding will be contingent upon the projects meeting the following requirements:
  - 1. By the end of the first year of operation, projects shall meet a cost-effectiveness of \$500,000/ton, and
  - 2. By the end of the second year of operation, projects shall meet all of the requirements, including cost-effectiveness limit, of Policy #28 (existing shuttles).

## b. Pilot Trip Reduction:

The project reduces single-occupancy commute vehicle trips by encouraging mode-shift to other forms of shared transportation. Pilot projects are defined as projects that serve an area where no similar service was available within the past three years, or that will result in significantly expanded service to an existing area. Funding is designed to provide the necessary initial capital to a public agency for the start-up of a pilot project so that by the end of the third year of the trip reduction project's operation, the project will be financially self-sustaining or require minimal public funds, such as grants, to maintain its operation.

- i. Applicants must demonstrate the project will reduce single-occupancy commute vehicle trips and result in a reduction in emissions of criteria pollutants;
- ii. The proposed service must be available for use by all members of the public;
- iii. Applicants must provide a written plan showing how the service will be financed in the future and require minimal, if any, TFCA funds to maintain its operation by the end of the third year;
- iv. If the local transit provider is not a partner, the applicant must demonstrate that they have attempted to have the service provided by the local transit agency. The

- transit provider must have been given the first right of refusal and determined that the proposed project does not conflict with existing service;
- v. Applicants must provide data and any other evidence demonstrating the public's need for the service, such as a demand assessment survey and letters of support from potential users;
- vi. Pilot trip reduction projects that propose to provide ridesharing service projects must comply with all applicable requirements in policy #27.

# 30. Bicycle Projects:

These projects expand public access to bicycle facilities. New bicycle facility projects or upgrades to an existing bicycle facility that are included in an adopted countywide bicycle plan, Congestion Management Program (CMP), countywide transportation plan (CTP), city plan, or the Metropolitan Transportation Commission's (MTC) Regional Bicycle Plan are eligible to receive TFCA funds. Projects that are included in an adopted city general plan or area-specific plan must specify that the purpose of the bicycle facility is to reduce motor vehicle emissions or traffic congestion.

# a. Bicycle Parking:

The project expands the public's access to new bicycle parking facilities (e.g., electronic bicycle lockers, bicycle racks), which must be publicly accessible and available for use by all members of the public. Eligible projects are limited to the purchase and installation of the following types of bike parking facilities that result in motor vehicle emission reductions:

- i. Bicycle racks, including bicycle racks on transit buses, trains, shuttle vehicles, and ferry vessels;
- ii. Electronic bicycle lockers; and
- iii. Capital costs for attended bicycle storage facilities.

## b. Bikeways:

The project constructs and/or installs bikeways for the purpose of reducing motor vehicle emissions or traffic congestion. Bikeways for exclusively recreational use are ineligible. Projects are limited to the following types of bikeways:

- i. Class I Bikeway (bike path), new or upgrade improvement from Class II or Class III bikeway;
- ii. New Class II Bikeway (bike lane);
- iii. New Class III Bikeway (bike route); and
- iv. Class IV Bikeway (separated bikeway), new or upgrade improvement from Class II or Class III bikeway.

All bikeway projects must, where applicable, be consistent with design standards published in the California Highway Design Manual or conform to the provisions of the Protected Bikeway Act of 2014. Projects must have completed all applicable environmental reviews and either have been deemed exempt by the lead agency or have been issued the applicable negative declaration or environmental impact report or statement.

#### 31. Bike Share:

Projects that make bicycles available to individuals for shared use for completing first- and last-mile trips in conjunction with regional transit and stand-alone short distance trips are eligible for TFCA funds, subject to all the following conditions:

- a. Projects must either increase the fleet size of existing service areas or expand existing service areas to include new Bay Area communities.
- b. Projects must have a completed and approved environmental plan and a suitability study demonstrating the viability of bicycle sharing.
- c. Projects must have shared membership and/or be interoperable with the Bay Area Bike Share (BABS) project when they are placed into service, in order to streamline transit for end users by reducing the number of separate operators that would comprise bike trips. Projects that meet one or more of the following conditions are exempt from this requirement:
  - i. Projects that do not require membership or any fees for use;
  - ii. Projects that were provided funding under MTC's Bike Share Capital Program to start a new or expand an existing bike share program; or
  - iii. Projects that attempted to coordinate with, but were refused by, the current BABS operator to have shared membership or be interoperable with BABS. Applicants must provide documentation showing proof of refusal.

TFCA funds may be awarded to pay for up to five years of operations, including the purchase of two-wheeled or three-wheeled vehicles (self-propelled or electric), plus mounted equipment required for the intended service and helmets.

# 32. Arterial Management:

Arterial management grant applications must identify a specific arterial segment and define what improvement(s) will be made to affect traffic flow on the identified arterial segment. Projects that provide routine maintenance (e.g., responding to citizen complaints about malfunctioning signal equipment) are not eligible to receive TFCA funds. Incident management projects on arterials are eligible to receive TFCA funds. Transit improvement projects include, but are not limited to, bus rapid transit and transit priority projects. Signal timing projects are eligible to receive TFCA funds. Each arterial segment must meet the cost-effectiveness requirement in Policy #2.

# 33. Infrastructure Improvements for Trip Reduction:

The project expands the public's access to alternative transportation modes through the design and construction of physical improvements that support development projects that achieve motor vehicle emission reductions.

- a. The development project and the physical improvement must be identified in an approved area-specific plan, redevelopment plan, general plan, bicycle plan, pedestrian plan, traffic-calming plan, or other similar plan.
- b. The project must implement one or more transportation control measures (TCMs) in the most recently adopted Air District plan for State and national ambient air quality standards. Pedestrian projects are eligible to receive TFCA funds.
- c. The project must have a completed and approved environmental plan. If a project is exempt from preparing an environmental plan as determined by the public agency or lead agency, then that project has met this requirement.
- 34. **Telecommuting:** Implementation of demonstration projects in telecommuting. No funds expended pursuant to this paragraph for telecommuting projects shall be used for the purchase of personal computing equipment for an individual's home use.

# Appendix E: Glossary of Terms

The following is a glossary of terms found in the TFCA County Program Policies:

<u>Community Air Risk Evaluation (CARE) Areas</u> – Areas identified where air pollution contributes most to health impacts and where populations are most vulnerable to air pollution.

**Environmental plan** - A completed and approved plan to mitigate environmental impacts as required by the result of the review process of all applicable local, state, and federal environmental reviews (e.g., CEQA, NEPA). For the purpose of the County Program Manager Fund, projects requiring a completed and approved environmental plan must complete all required environmental review processes. Any project that is exempt from preparing an environmental plan, as determined by an environmental review process, has met the requirement of having a completed and approved environmental plan.

**Final audit determination** - The determination by the Air District of a County Program Manager or grantee's TFCA program or project, following completion of all procedural steps set forth in HSC section 44242(a) – (c).

**Funding Agreement** - The agreement executed by and between the Air District and the County Program Manager for the allocation of TFCA County Program Manager Funds for the respective fiscal year.

**Grant Agreement** - The agreement executed by and between the County Program Manager and a grantee.

**Grantee** - Recipient of an award of TFCA Funds from the County Program Manager to carry out a TFCA project and who executes a grant agreement with the County Program Manager to implement that project. A grantee is also known as a project sponsor.

Implementation Period – Status starts once Grant Agreement has been executed and project is being implemented. Status ends once Operational Period starts, i.e. once a service project starts its operation, a vehicle/equipment/facility project is purchased, installed, constructed, and placed into public service.

**Operational Period** –This status starts once a project has completed installation/construction/ procurement and has placed equipment/vehicles/facilities into public service and ends once years effectiveness has been met. For service projects, the operational period starts when the project starts providing service and ends once project has met its years effectiveness.

**Priority Development Areas (PDAs)** – Areas within existing communities that local city or county governments have identified and approved for future growth. These areas typically are accessible by one of more transit services, and are often located near established job centers, shipping districts, and other services.

**Project Useful Life** (see Years Effectiveness)

**TFCA funds** - Grantee's allocation of funds, or grant, pursuant to an executed grant agreement awarded pursuant to the County Program Manager Fund Funding Agreement.

**TFCA-generated funds** - The Transportation Fund for Clean Air (TFCA) program funds generated by the \$4 surcharge on motor vehicle registration fees that are allocated through the Regional Fund and the County Program Manager Fund.

**Weighted PM10** - Weighted particulate matter less than 10 microns in diameter (PM10) is calculated by multiplying the tailpipe PM emissions by a factor of 20, which is consistent with CARB methodology for estimating PM10 emissions for the Carl Moyer Program.

**Years Effectiveness** - Equivalent to the administrative period of the grant and used in calculating a project's Cost Effectiveness. This is different than how long the project will physically last.

# Appendix F: Insurance Guidelines

This appendix provides guidance on the insurance coverage and documentation typically required for TFCA County Program Manager Fund projects. Note that the Air District reserves the right to specify different types or levels of insurance in the Funding Agreement.

The typical Funding Agreement requires that each Grantee provide documentation showing that they meet the following requirements for each of their projects. The County Program Manager is not required to meet these requirements itself, unless it is acting as a Grantee.

# 1. Liability Insurance:

<u>Corporations and Public Entities</u> - a limit of not less than \$1,000,000 per occurrence. Such insurance shall be of the type usual and customary to the business of the Grantee, and to the operation of the vehicles, engines or equipment operated by the Project Sponsor.

<u>Single Vehicle Owners</u> - a limit of not less than \$750,000 per occurrence. Such insurance shall be of the type usual and customary to the business of the Grantee, and to the operation of the vehicles, engines or equipment operated by the Grantee.

# 2. Property Insurance:

<u>New Equipment Purchases</u> - an amount of not less than the insurable value of Grantee's vehicles, engines or equipment funded under this Agreement, and covering all risks of loss, damage or destruction of such vehicles, engines or equipment.

<u>Retrofit Projects</u> - 2003 model year vehicles or engines or newer in an amount of not less than the insurable value of Grantee's vehicles, engines or equipment funded under this Agreement, and covering all risks of loss, damage or destruction of such vehicles, engines or equipment.

## 3. Workers Compensation Insurance:

<u>Construction projects</u> – including but not limited to bike/pedestrian paths, bike lanes, smart growth and vehicle infrastructure, as required by California law and employers' insurance with a limit not less than \$1 million.

## 4. Acceptability of Insurers:

Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A: VII. The Air District may, at its sole discretion, waive or alter this requirement or accept self-insurance in lieu of any required policy of insurance.

The following table lists the type of insurance coverage generally required for each project type. The requirements may differ in specific cases. County Program Managers should contact the Air District liaison with questions, especially about unusual projects.

Project Category	Liability	Property	Workers Compensation
Vehicle purchase and lease	Х	Х	
Engine retrofits	Х	Х	
Operation of shuttle services	Х		Х
Operation of vanpools	Х		
Construction of bike/pedestrian path or overpass	Х		Х
Construction of bike lanes	Х		Х
Construction of cycle tracks/separated bikeways	Х		Х
Construction of smart growth/traffic calming projects	Х		Х
Construction of vehicle fueling/charging infrastructure	Х	Х	Х
Arterial management/signal timing	Х		Х
Purchase and installation of bicycle lockers and racks	Х	Х	Х
Transit marketing programs	Х		
Ridesharing projects	Х		Х
Bike Share projects	Х	Х	Х
Transit pass subsidy or commute incentives	Х		
Guaranteed Ride Home Program	Х		

# Appendix G: Sample Project Information Form

Α.	Project Number: 22XX01
	Use consecutive numbers for projects funded, with year, county code, and number, e.g., 22NAP01, 22NAP02 for Napa County. Zero (e.g., 22NAP00) is reserved for County Program Manager TFCA funds allocated for administration costs.
В.	Project Title:
	Provide a concise, descriptive title for the project (e.g., "Elm Ave. Signal Interconnect" or "Purchase Ten Gasoline-Electric Hybrid Light-Duty Vehicles").
C.	TFCA County Program Manager Funds Allocated: \$
D.	TFCA Regional Funds Awarded (if applicable): \$
E.	Total TFCA Funds Allocated (sum of C and D): \$
F.	Total Project Cost: \$
G.	Project Description:
	Grantee will use TFCA funds to Include information sufficient to evaluate the eligibility and cost-effectiveness of the project. Examples of the information needed include but are not limited to: wha will be accomplished by whom, how many pieces of equipment are involved, how frequently it is used, the location, the length of roadway segments, the size of target population. Background information should be brief. For shuttle/feeder bus projects, indicate the hours of operation, frequency of service, and rail station and employment areas served.
Rei	ated Project components funded by TFCA: (Project Number)
Н.	Final Report Content: Final Report form and final Cost Effectiveness Worksheet
	Reference the appropriate Final Report form that will be completed and submitted after project completion. See <a href="www.baaqmd.gov/tfca4pm">www.baaqmd.gov/tfca4pm</a> for a listing of the following reporting forms:
	Trip Reduction
	Clean Air Vehicles
	Bicycle Projects
	Arterial Management Projects
	Repower and Retrofit
Ι.	Attach a completed Cost-Effectiveness Worksheet and any other information used to evaluate the proposed project. For example, for vehicle projects, include the California Air Resources Board Executive

Orders for all engines and diesel emission control systems. Note, Cost-Effectiveness Worksheets are not

J. Comments (if any):

Add any relevant clarifying information in this section.

needed for TFCA County Program Managers' own administrative costs.

# Appendix H: Instructions for Cost-Effectiveness Worksheets

Cost-Effectiveness Worksheets are used to calculate project emission reductions and TFCA cost-effectiveness (TFCA \$/ton of emission reductions). County Program Managers must submit Cost-Effectiveness Worksheets for each new project and each project receiving additional TFCA funds, along with Project Information Forms, no later than six months after Air District Board approval of the County Program Manager's Expenditure Plan. County Program Managers must also submit Worksheets with Final Report Forms as follows:

- For service projects (e.g., ridesharing, shuttle, bike share projects), post-project evaluations should be completed using the Cost-Effectiveness Worksheet version from the *year* service was available to the public. (This version may be the same as the one used in the pre-project evaluation).
- For all other projects (e.g. vehicle replacement, EV charging station), post-project evaluations should be completed using the version of the Cost-Effectiveness Worksheet for the year the purchased, installed, or constructed project became available for use by the public.

The Air District provides Microsoft Excel worksheets for download on their Box account (link is provided via email to the County Program Managers). Worksheets must be completed for all project types with the exception of TFCA County Program Manager administrative costs.

Worksheet Name	Project Type
Trip Reduction FYE 2022	<ul> <li>Ridesharing</li> <li>Shuttles</li> <li>Bicycle Parking, Bikeways, Bike Share</li> <li>Smart Growth, Traffic Calming, Transit Bus Signal Priority (also for Transit Rail Vehicles)</li> <li>Pilot Trip Reduction</li> <li>Telecommuting</li> </ul>
Arterial Management FYE 2022	Arterial Management: Signal Timing
LD & HD Vehicle FYE 2022	Alternative-Fuel Light-Duty and Light Heavy-Duty Vehicles
Heavy-Duty Vehicle FYE 2022	<ul> <li>Alternative-Fuel Low-Mileage Utility Trucks - Idling Service</li> <li>Alternative-Fuel Heavy-Duty Trucks, Buses</li> </ul>
EV Infrastructure FYE 2022	Alternative Fuel Infrastructure

Make entries in the yellow-shaded areas only in the worksheets. Begin each new filename with the application number (e.g., 22MAR04) as described below. Each worksheet contains separate tabs for: Instructions (no user input), General Information, Calculations, Notes and Assumptions, and Emission Factors (no user input).

County Program Managers must provide all relevant assumptions used to determine the project's costeffectiveness in the Notes & Assumptions tab. If a County Program Manager seeks to use different default values or methodologies, it is advisable that they consult with the Air District before project approval, in order to avoid the risk of funding projects that are not eligible for TFCA funds.

The Air District encourages County Program Managers to assign the shortest duration possible for the # Years of Effectiveness value for a project to meet the cost-effectiveness requirement. This practice will help to minimize both the Grantee and County Program Manager's administrative burdens.

# **Instructions Specific to Each Project Type**

# **Ridesharing and Shuttle Projects**

Two key components in calculating cost-effectiveness are the number of vehicle trips eliminated per day and the trip length. The number of vehicle trips eliminated is the number of trips by participants that would have driven as a single occupant vehicle if not for the service; it is not the same as the total number of riders or participants. A frequently used proxy is the percentage of survey respondents who report that they would have driven alone if not for the service provided. For calculating the length of trip, only use the length of the vehicle trip avoided by only the riders that otherwise would have driven alone.

In addition, **each shuttle route must meet the cost-effectiveness criteria** (Policy #2). If a project consists of more than one route, one worksheet should be submitted with all routes listed, **and** a separate worksheet must be prepared showing the cost-effectiveness of each route (i.e., as determined by that route's ridership, funding allocation, etc.).

Annually funded service projects with a one-year project useful life and that do propose surplus emissions reduction may continue receiving funds.

Note that MTC's regional rideshare program (i.e., 511.org) provides funding to counties. This funding may also contain some TFCA funding, which, if used in combination with this TFCA funding, may violate Policy 11. Duplication.

# **Pilot Trip Reduction Projects**

Two key components in calculating cost-effectiveness are the number of vehicle trips eliminated per day and the trip length. The number of vehicle commute trips eliminated is the number of trips by participants that would have driven as a single occupant vehicle if not for the service; it is not the same as the total number of riders or participants. If a survey was conducted on potential demand, a frequently used proxy is the percentage of survey respondents who report that they would have driven alone if not for the service provided. If survey data is not available, alternative supporting documentation must be provided to justify the inputs used in the cost-effectiveness worksheet. For calculating the length of trip, only use the length of the vehicle trip avoided by only the riders that otherwise would have driven alone.

## **Arterial Management Projects**

Please note that **each segment must meet the cost-effectiveness criteria** (Policy #2). If a project consists of more than one segment being considered for funding, one worksheet should be submitted with all segments listed, **and** a separate worksheet must be prepared showing the cost-effectiveness of each segment (i.e., as determined by that segment's traffic speed improvements, funding allocation, etc.).

For a signal timing project to qualify for four (4) years of effectiveness, the signals must be retimed after two (2) years.

## **Transit Signal Priority**

For the length of trip, a good survey practice is to determine the length of automobile trip avoided by just those riders that otherwise would have driven, rather than by all riders.

## **Smart Growth and Traffic Calming**

Projects must reduce vehicle trips by increasing pedestrian/bicycle travel and transit use. Projects that only involve slowing automobile traffic briefly (e.g., via speed bumps) tend to not be cost-effective, as the acceleration following deceleration increases emissions. Due to the variety of potential Smart Growth and Traffic Calming projects, there currently are no default assumptions provided for emission reduction inputs aside from years of effectiveness. A primary component in calculating cost-effectiveness is the number of vehicle trips eliminated as a result of the project.

# Vehicle and Fueling Infrastructure Projects

The investment in each individual vehicle must be shown to be cost-effective (Policy #2). The worksheet calculates the cost-effectiveness of each vehicle separately, so only one worksheet is required when more than one vehicle is being considered for funding.

TFCA Policies require that all projects including those subject to emission reduction regulations, contracts, or other legally binding obligations achieve *surplus* emission reductions—that is, reductions that go beyond what is required. Therefore, vehicles with engines certified as Family Emission Limit (FEL) engines are not eligible for funding because the engine is certified for participation in an averaging, banking, and trading program in which emission benefits are already claimed by the manufacturer.

Because TFCA funds may only be used to fund early-compliance emissions reductions, and because of the various fleet rule requirements, calculating cost-effectiveness for vehicle grant projects can be complex, and it is recommended that it be done only by someone familiar with all applicable regulations and certifications. Additionally, electric vehicle infrastructure generally does not qualify for more than \$6,000 per single-port Level 2 (6.6KW) charging station, \$8,000 per dual-port Level 2 charging station, and \$35,000 per DC fast charging station; County Program Managers should consult with the Air District on such projects, as the evaluation methodologies are evolving. Also, any questions should be raised to Air District staff well before project approval deadlines in order to assure project eligibility. Below is general guidance for charging type based on the duration the vehicle is parked at that specific location:

Category	Typical Venues	Available Charging Time	Charging Method (Primary/Secondary)
Opportunity and	Shopping Centers	0.5 – 2 hours	Level 2/DC Fast
Destination	Airport (short term parking)	< 1 hour	Level 2/DC Fast
	Other	< 1 hour	Level 2/DC Fast
	Cultural and Sports Centers	2 – 5 hours	Level 2/Level 1
	Parking Garages	2 – 10 hours	Level 2/Level 1
	Hotels/Recreation Sites	4 – 72 hours	Level 2/Level 1
	Airports (long term parking)	8 – 72+ hours	Level 1/Level 2
Corridor/Pathway	Interstate Highways	< 0.5 hours	DC Fast/
	Commuting/Recreation Roads	< 0.5 hours	DC Fast/Level 2
Emergency	• Fixed	< 0.1 hours	DC Fast
	• Mobile	< 1 hour	Level 2/DC Fast

For more information, please refer to the **Bay Area EV Readiness Plan**.

The cost-effectiveness of fueling infrastructure is based on the vehicles that will use the funded facility. For these projects, County Program Managers must exercise care that emission reductions from the associated vehicles are only credited towards a TFCA infrastructure project, and are not

double counted in any other Air District grant program, either at the present time or for future vehicles that will use the facility during its years effectiveness.

The total mileage a vehicle can travel may be limited by regulation, and the product of Years of Effectiveness and Average Annual Miles cannot exceed that mileage (e.g., some cities limit the lifetime miles a taxicab can travel).

Heavy-duty vehicle and infrastructure projects: The California Air Resources Board (CARB) <u>Carl Moyer Program Guidelines</u> document is the source for the formulas and factors used in the Heavy-Duty Vehicle worksheet. Note that there are some differences between the TFCA and Moyer programs; consult Air District staff with any questions. At a minimum, a funded vehicle must have an engine complying with the model year 2010 and later emission standards. Vehicles that are funded by the TFCA shall not be co-funded with other funding sources that claim emissions credits.

# **Documentation and Recordkeeping**

Beginning in FYE 2012, Project files must be maintained by County Program Managers and Grantees for a minimum of *five years* following completion of the Project Years Effectiveness, versus three years as before. Project files must contain all related documentation including copies of CARB executive orders, quotes, mileage logs, fuel usage (if cost-effectiveness is based on fuel use), photographs of engines and frames that were required to be scrapped, and financial records, in order to document the funding of eligible and cost-effective projects.

Guidance on inputs for the worksheets are as follows:

#### **Instructions Tab**

Provides instructions applicable to the relevant project type(s).

# **General Information Tab**

**Project Number**, which has three parts:

1<sup>st</sup> – fiscal year in which project will be funded (e.g., 22 for FYE 2022).

**2**<sup>nd</sup> – County Program Manager; use the following abbreviations:

ALA – Alameda	CC – Contra Costa	MAR – Marin
NAP – Napa	<b>SF</b> – San Francisco	<b>SM</b> – San Mateo
SC – Santa Clara	SOL – Solano	SON – Sonoma

**3**<sup>rd</sup> – two-digit number identifying project; 00 is reserved for County Program Manager administrative costs.

Example: 22MAR04 = fiscal year ending 2022, Marin, Project #04.

**Project Title:** Short and descriptive title of project, matching that on the Project Information Form.

**Project Type Code:** Insert *one and only one* of the following codes for the corresponding project type. If a project has multiple parts, use the code for the main component. Note that not all listed project types may be allowed in the current funding cycle.

Code	Project Type	Code	Project Type
0	Administrative costs	6с	Shuttle services – NG powered
1a NG buses (transit or shuttle buses)		6d	Shuttle services – EV powered
1b	EV buses	6e	Shuttle services – Fuel cell powered

Code	Project Type	Code	Project Type
1c	Hybrid buses	6f	Shuttle services – Hybrid vehicle
1d	Fuel cell buses	6g	Shuttle services – Other fuel type
1e	Buses – Alternative fuel	6h	Shuttle services w/TFCA purchased retrofit
<b>2</b> a	NG school buses	6i	Shuttle services – fleet uses various fuel types
2b	EV school buses	<b>7</b> a	Class 1 bicycle paths
2c	Hybrid school buses	7b	Class 2 bicycle lanes
2d	Fuel cell school buses	7c	Class 3 bicycle routes, bicycle boulevards
2e	School buses – Alternative fuel	7d	Bicycle lockers and cages
<b>3</b> a	Other heavy-duty – NG (street sweepers, garbage trucks)	7e	Bicycle racks
3b	Other heavy-duty – EV	7f	Bicycle racks on buses
3c	Other heavy-duty – Hybrid	7g	Attended bicycle parking ("bike station")
3d	Other heavy-duty – Fuel cell	7h	Other type of bicycle project (e.g., bicycle loop detectors)
3e	Other heavy-duty - Alternative fuel (High Mileage)	7i	Bike share
3f	Other heavy-duty - Alternative fuel (Low Mileage)	<b>7</b> j	Class 4 cycle tracks or separated bikeways
4a	Light-duty vehicles – NG	8a	Signal timing (Regular projects to speed traffic)
4b	Light-duty vehicles – EV	8b	Arterial Management – transit vehicle priority
4c	Light-duty vehicles – Hybrid	8c	Bus Stop Relocation
4d	Light-duty vehicles – Fuel cell	8d	Traffic roundabout
4e	Light-duty vehicles – Other clean fuel	9a	Smart growth – traffic calming
5a	Implement TROs (pre-1996 projects only)	9b	Smart growth – pedestrian improvements
5b	Regional Rideshare Program	9с	Smart growth – other types
5c	Incentive programs (for any alternative mode)	<b>10</b> a	Rail-bus integration
5d	Guaranteed Ride Home programs	10b	Transit information / marketing
5e	Ridesharing – Vanpools (if cash incentive only, use 5c)	11a	Telecommuting demonstration
5f	Ridesharing – School carpool match	11b	Congestion pricing demonstration
5g	Other ridesharing / trip reduction projects	11c	Other demonstration project
5h	Trip reduction bicycle projects (e.g., police on bikes)	12a	Natural gas infrastructure
6a	Shuttle services – diesel powered	12b	Electric vehicle infrastructure
6b	Shuttle services – gasoline powered	12c	Alternative fuel infrastructure

**County:** Use the same abbreviations as used in Project Number.

**Worksheet Calculated by:** Name of person completing the worksheet.

**Date of Submission:** Date submitted to the County Program Manager.

**Project Sponsor Organization:** Organization responsible for the project.

Contact Name: Name of individual responsible for implementing the project. Include all

contact information requested (email, phone, address).

**Project Start Date:** Date work begins on a project. Note: Project must meet Readiness Policy

(Policy #6).

**Project Completion Date:** Date the project was completed.

**Final Report to CMA:** Date the Final Report was received by the County Program Manager.

Note: County Program Managers must expend funds within two years of receipt, unless an application states that the project will take a longer period of time and is approved by the County Program Manager or the

Air District.

#### **Calculations Tab**

Because the worksheets have many interrelated formulas and references, users must not add or delete rows or columns, or change any formulas, without consulting with the Air District. Several cells have input choices or information built in, as pull-down menus or comments in Excel. Pull-down menus are accessed by clicking on the cell. Comments are indicated by a small triangle in the upper right corner of a cell, and are made visible by resting the cursor over the cell.

# **Cost-Effectiveness Inputs**

# Years Effectiveness: Equivalent to the administrative period of the grant. See inputs table

below. The best practice is to use shortest value possible.

**Total Project Cost:** Total cost of project including TFCA funding, sponsor funding, and funds

contributed by other entities. Only include goods and services of which

TFCA funding is an integral part.

**TFCA Cost:** TFCA 40% County Program Manager Funds and the 60% Regional Funds

(if any), listed separately.

## **Emission Reduction Calculations**

Instructions and default values for each project type are provided in the table below. Default values for years of effectiveness are provided for the various project types. There are no defaults for Smart Growth projects, due to the wide variability in these projects.

# **Notes & Assumptions Tab**

Provide an explanation of all assumptions used. If you choose to use assumptions or values different from those defaults values provided in the Air District's guidelines, **submit documentation and an explanation** about your inputs and assumptions to request approval from the Air District prior to awarding funds to the project.

## **Emission Factors Tab**

This tab contains references for the Calculations tab. No changes shall be made to this tab.

# **Additional Information for Heavy-duty Vehicle Projects**

CARB has adopted a number of standards and fleet rules that limit funding opportunities for on-road heavy-duty vehicles. See the below list of CARB rules that affect on-road heavy-duty fleets, followed by a reference sample CARB Executive Order. For assistance in determining whether a potential project is affected, contact Air District staff or consult Carl Moyer Implementation Charts at:

http://www.arb.ca.gov/msprog/moyer/guidelines/supplemental-docs.htm

# **Summary of On-Road Heavy-Duty Fleet Rules**

Vehicle Type	Subject to CARB Fleet Rule?
Urban buses	Fleet Rule for Transit Agencies
Transit Fleet Vehicles	Fleet Rule for Transit Agencies
Solid Waste Collection Vehicles, excluding transfer trucks	Solid Waste Collection Vehicle Regulation
Municipal Vehicles and Utility Vehicles	Fleet Rule for Public Agencies and Utilities
Port and Drayage Trucks	Port Truck Regulation
All other On-road heavy-duty vehicles	On-road Rule

# **Summary of Maximum Cost-Effectiveness & Years Effectiveness by Project Category**

Policy No.	Project Category	Maximum C-E (\$/weighted ton)	Years Effectiveness
22	Alternative Fuel Light- and Medium- Duty Vehicles	500,000	3 years recommended, 4 years max
23	Reserved	Reserved	Reserved
24	Alternative Fuel Heavy-Duty Trucks and Buses	500,000	3 years recommended, 4 years max
25	On-Road Truck Replacements	90,000	3 years recommended, 4 years max
26	Alternative Fuel Infrastructure	500,000	3 years recommended, 4 years max
27	Ridesharing Projects – Existing	150,000	2 years max
28	Shuttle/Feeder Bus Service – Existing	200,000; 250,000 for services in CARE Areas or PDAs	2 years max
	Shuttle/Feeder Bus Service – Pilot not in CARE Areas or PDAs. These projects will be evaluated every year.	Year 1 - 500,000 Year 2 and beyond - see Policy #28 shuttle is considered existing	2 years max
29.a.	Shuttle/Feeder Bus Service – Pilot shuttle projects located in Highly Impacted Communities as defined in the Air District CARE Program and/or a Planned or Potential PDA may receive TFCA Funds under the Pilot designation. These projects will be evaluated every year.	Years 1 & 2 - 500,000 Year 3 and beyond - see Policy #28 shuttle is considered existing	2 years max
29.b.	Pilot Trip Reduction	500,000	2 years max
30.a.	Bicycle Parking	250,000	3 years max
30.b.	Bikeways	500,000	10 years max
31	Bike Share	500,000	5 years max
32	Arterial Management	250,000	2 years, or 4 years with retiming at 2 years
33	Infrastructure Improvements for Trip Reduction	250,000	10 years max
34	Telecommuting	150,000	2 years max

# **Emission Reduction Inputs**

County Program Managers must describe all relevant assumptions used to determine the project's cost-effectiveness in the Notes & Assumptions tab. If a CPM seeks to use different default values or methodologies, it is advised that the CPM consult with Air District staff, before project approval, to avoid the risk of funding projects that are not eligible for TFCA funds.

Project Type/Worksheet Name	Input Data Needed	Default Assumptions			
Trip Reduction (Existing and	Trip Reduction (Existing and Pilot)				
Worksheet = Trip Reduction FY	E 2022				
documentation or data.		ilar project type. Any deviations from the default assumptions used must be supported by			
Project Type = 5a-h, 8b, 9a-c, 1					
Ridesharing	# Years Effectiveness	Enter in Cost Effectiveness Inputs, up to 2 years			
	# Trips/Day (1-way) eliminated [% of target population (# employees)]	Enter in Step 1-Column A, 1% of target population			
	Days/Yr	Enter in Step 1-Column B, 240 days (max.)			
	Trip Length (1-way)	Step 1-Column C, Default = 16 miles (1-way commute distance from MTC's Commute Profile)			
	# New Trips/Day (1-way) to access transit	Step 2-Column A, Default = 50% of # Trips/Day Eliminated (Step 1-Column A)			
	Days/Yr	Enter in Step 2-Column B, same # as Step 1-Column B			
	Trip Length (1-way)	Enter in Step 2-Column C, Default = 3 miles			
	For ridesharing, the default maximum n	umber of vehicle trips reduced per day is 1% of target population.			
School-Based Ridesharing	# Years Effectiveness	Enter in Cost Effectiveness Inputs, up to 2 yrs			
	# Trips/Day (1-way) eliminated [% of target population (total # students)]	Step 1-Column A, No Default			
	Days/Yr	Enter in Step 1-Column B, 180 days (max.)			
	Trip Length (1-way)	Step 1-Column C, 1-3 miles			
	For ridesharing, the default maximum n	umber of vehicle trips reduced per day is 1% of target population.			
Transit Incentive Campaigns	# Years Effectiveness	Enter in Cost Effectiveness Inputs, up to 2 yrs			
	# Trips/Day (1-way) eliminated [% of target population]. Use survey data if available.	Step 1-Column A, No default			
	Days/Yr	Enter in Step 1-Column B, 90 days (max.) if # Trips/Day based on % of target population. If # Trips/Day based on participants, 240 days (max).			

	Trip Length (1-way), based on routes	Step 1-Column C, No Default
accessed # New Trips/Day (1-way) to access transit		Step 2-Column A, 50% of # Trips/Day Eliminated (Step 1-Column A)
Days/Yr (new trips)		Enter in Step 2-Column B - same as # days used in Step 1
	Trip Length (1-way) for new trips	Step 2-Column C, Default = 3 miles
Guaranteed Ride Home	# Years Effectiveness	Enter in Cost Effectiveness Inputs, up to 2 years
<u>Programs</u>	# Trips/Day (1-way) eliminated	Enter in Step 1-Column A, 0.2% of target population.
	Days/Yr	Enter in Step 1-Column B, 240 days (Max.)
	Trip Length (1-way)	Step 1-Column C, Default = 16 miles
Transit Vehicle Signal	# Years Effectiveness	Enter in Cost Effectiveness Inputs, 2 yrs
<u>Prioritization</u>	# Trips/Day (1-way) eliminated	Step 1-Column A, No Default
	Days/Yr	Enter in Step 1-Column B, 240 days (max)
	Trip Length (1-way)	Step 1-Column C, No Default
		Step 2-Column A, 50% of # Trips/Day Eliminated (Step 1-Column A)
		Step 2-Column B, same as Step 1-Column B
		Enter in Step 2-Column C, 3 miles
Infrastructure Improvements for Trip Reduction	# Years Effectiveness	Enter in Cost Effectiveness Inputs, 10 years max
Note: Default assumption available for Years of Effectiveness only. Provide detailed explanations (in Notes and Assumptions tab) of assumptions used for other inputs.		
Project Type =6a-i, 10a-b		
Shuttle/Feeder Bus, Rail-Bus	# Years Effectiveness	Cost Effectiveness Inputs, up to 2 years
Integration, and Transit Information Systems	# Trips/Day (1-way) eliminated trips. Trips only from riders who previously would have driven.	Step 1-Column A
		For on-going service, use survey results

, ,	apenditure Fran Guidance FFE 2022	For new service, use 50% of daily seating capacity of vehicle * 67% (% single-occupancy
		vehicles (SOV) from MTC Commuter Profile)
	Days/Yr eliminated trips	Step 1-Column B, Enter number of operating days. Default =240 days/yr.
	Trip Length (1-way) eliminated trips.  Average trip length that will be eliminated due to shuttle passengers taking train/ferry in conjunction with the shuttle.	Enter in Step 1-Column C, a survey-based distance, or, if no survey, 16 miles for shuttles and 35 miles for vanpools
	# Trips/Day (1-way) new trips to access transit	Step 2-Column A, Use survey data or, if none, a default is 50% of # Trips/Day Eliminated (Step 1-Column A)
	Days/Yr new trips	Enter in Step 2-Column B, same # as in Step 1-Column B.
	Trip Length (1-way) new trips. Average trip length of shuttle passengers that drive from home to the BART/Caltrain station.	Enter in Step 2-Column C, a survey-based distance, or, if no survey, default is 3 miles for home-to-rail trips.
	When possible, emissions from shuttle v should consult with Air District staff for	rehicles should be based on the vehicle engine Executive Order. County Program Manager guidance.
	Follow Step 3A for vans and shuttle veh	nicles 14,000 lbs. and lighter. Follow Step 3B for buses
	# Vehicles, Model Year: Number of vehicles with same model year	Step 3A - Column A, no default.
	<b>Emission Std.:</b> Emission Standard from list provided.	3A - Column B, no default.
	<b>Vehicle GVW:</b> Weight Class from list provided.	3A Column C, no default.
	ROG, NO <sub>x</sub> , Exhaust PM <sub>10</sub> , and Total PM <sub>10</sub> Factors: enter factor from appropriate table provided on Emission Factors tab—CARB Table 2 for vehicles model year 2004 and after, or CARB Table 7 for model years 1995-2003.	3A Column D through G, no default
	<b>CO<sub>2</sub> Factor:</b> enter factor from CO <sub>2</sub> Table for Light- and Light Heavy-Duty Shuttles, on Emission Factors tab.	3A Column H, no default.
	Total annual VMT = [length of shuttle/van trip (one-way)] X [# one-way trips per day] X [# days of service per year]. For all vehicles listed in Step 3A.	3A Column I, no default.

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	ROG, NO <sub>x</sub> , Exhaust PM <sub>10</sub> , Other PM <sub>10</sub> and CO <sub>2</sub> Factors: enter factor from Emissions for Buses Table provided on Emission Factors tab.	Step 3B: Columns D through H, no default. Note that Step 3B uses Other $PM_{10}$ , not Total $PM_{10}$ .
	Total annual VMT = [length of shuttle/van trip (one-way)] X [# one-way trips per day] X [# days of service per year]. For all vehicles listed in Step 3B.	3B Column I, no default.
Project Type = 7a-j, 11a		
Bikeways (Paths, Lanes, Routes)  Notes:	<ul> <li>Facility type (Class 1, 2, 3, or 4)</li> <li>Length of the project segment</li> <li>Traffic volume (ADT) on the face</li> </ul>	
• For <b>Class 1</b> projects, use	# Years Effectiveness	Enter in Cost Effectiveness Inputs:
the ADT on the most	Class 1 bike path (or bike bridge)	Not to exceed 10 years for Class 1 (trails/paths)
appropriate parallel road.	Class 2 bike lane Class 3 bike route Class 4 cycle tracks or separated	Not to exceed 7 years for Class 2, Class 3 and Class 4
<ul> <li>For gap closure projects (where project will close a gap between two existing segments of bikeway), use the length</li> </ul>	# Trips/Day (1-way) eliminated (depends on length of project segment and ADT on project segment)	Enter in Step 1-Column A:
for the total facility.	Class 1 & Class 2 & Class 4	Length ≤ 1 mile = 0.4% ADT
	ADT ≤ 12,000 vehicles per day	Length >1 and ≤ 2 miles = 0.6% ADT
<ul> <li>The maximum number of vehicle trips reduced per day is 240. The Air</li> </ul>		Length >2 miles = 0.8% ADT
District generally	Class 1 & Class 2 & Class 4	Length ≤ 1 mile = 0.3% ADT
assumes that no bike	ADT > 12,000 and ≤ 24,000	Length > 1 and ≤ 2 miles = 0.45% ADT
project will reduce more than 240 vehicle trips per day.		Length > 2 miles = 0.6% ADT
pei uay.	Class 1 & Class 2 & Class 4	Length ≤ 1 mile = 0.25% ADT
	ADT > 24,000 and ≤ 30,000	Length > 1 and ≤ 2 miles = 0.35% ADT
	Maximum is 30,000.	Length > 2 miles = 0.45% ADT

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	Class 3 bike route or bicycle blvd	Route ≤ 1 mile = 0.1% ADT  Route > 1 and ≤ 2 miles = 0.15% ADT
	Upgraded Class 1 & Upgraded Class 4	Route > 2 miles = 0.25% ADT Use 10% of the appropriate formula above
	Days/Yr	Enter in Step 1-Column B, 240 days
	Trip Length (1-way)	Enter in Step 1-Column C, 3 miles. (Not same as segment length.)
Bicycle Parking	# Years Effectiveness	Enter in Cost Effectiveness Inputs, 3 yrs
	# Trips/Day (1-way) eliminated	Enter in Step 1-Column A:
		Capacity of lockers x 2 trip/day
		Capacity of cages x 0.75 trips per day
		Capacity of racks x 0.5 trips per day
	Days/Yr	Enter in Step 1-Column B, 240 days
	Trip Length (1-way)	Enter in Step 1-Column C, 3 miles
Bike Share	# Years Effectiveness	Enter in Cost Effectiveness Inputs, max. 5 yrs
	# Trips/Day (1-way) eliminated	Enter in Step 1-Column A:
		Number of bikes * 1.48 trips per day * 12% (actual vehicle trips replaced based on Shaheen research dated June 2015)
	Weekdays	
	Days/Yr	Enter in Step 1-Column B, 260 days
	Trip Length (1-way)	Enter in Step 1-Column C, 16 miles
	Weekends	
	Days/Yr	Enter in Step 1-Column B, 105 days
	Trip Length (1-way)	Enter in Step 1-Column C, 3 miles
Telecommuting	# Years Effectiveness	Cost Effectiveness Inputs, up to 2 years
Note: Default assumption available for Years of Effectiveness only. Provide detailed explanations (in Notes and Assumptions tab) of assumptions used for other inputs.		
Arterial Management Worksheet = Arterial Manager	nent FYE 2022	

Project Type = 8a-d							
Arterial Management (Signal	# Years Effectiveness	Enter in Cost Effectiveness Inputs:					
Timing)		For signal timing/synchronization, 2 yrs or, with retiming required at 2 yrs, 4 yrs. Each project should include either 2- or 4-year segments, not both.					
Note: Data for <b>traffic volume</b> and <b>vehicle speed</b> must be	Name of Arterial	Column A: Name of the arterial and the direction of travel.					
generated concurrently (i.e., during the exact same day	Segment Length (miles)	Enter under Column B the length of arterial over which speeds will be increased.					
and time period)	Days/Yr	Enter under Column C the number of days per year over which the project would affect traffic. Default is 240 days.					
	Time Period	Enter under Column D the time period over which the traffic volumes and speed will chan (e.g., 4-7 PM). Include all the hours in a period that will benefit, not just the peak hour.					
	Traffic Volume	Enter under Column E the traffic volume before the project for the corresponding Time Period and direction of travel that will make the stated speed change.					
	Traffic Speed without the Project	Enter under Column F the average traffic speed along the length of the arterial before implementation of the project.					
	Travel Speed with Project	Enter under Column G the average estimated traffic speed along the length of the arterial after implementation of the project. <i>Note: Maximum increase in speed is 25%.</i>					
Alternative Fuel Heavy-Dut	y Vehicles and Infrastructure						
Worksheets = Heavy-Duty Vehi	icle FYE 2022						
Project Types = 1a-e, 2a-e, 3a-f	, 12a-c						
Alternative Fuel Heavy-Duty	# Years Effectiveness.	Cost Effectiveness Inputs, 3 years is recommended - not to exceed 4 years.					
Vehicles and Infrastructure Use separate workbook and	<b>Column B, Unit #:</b> A unique identifier. List each vehicle on a separate row.	Column B: No default					
Project # for each set of vehicles with different # Years Effectiveness or with different fuel types.	Columns C through E, Baseline Emission Rate: NO <sub>x</sub> , ROG, PM factors: See Moyer Table D-2a/b or D-6, based on your vehicle type, weight, and engine model year.	Columns C through E: For FYE 2019 alt-fuel heavy-duty vehicle projects, including urban buses, the baseline default is the Model Year 2010 emission standards.					
	Column F, Annual Fuel Use: Base on average fuel use over 2 years, and document with 2 years of records.	Column F: No default.					
	Column G, Fuel Consumption Factor: Moyer Table D-24	Column G: Most on-road engines are below 750 horsepower, thus the default value is 18.5.					

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Column H, Conversion Factor to g/bhp-hr): Input a value onl Baseline Emission Rates (Colum E) are in g/mi and Fuel Basis is used. Notice: enter data in thi column or Column J, not both. Moyer Table D-28.	ly if mns C – being is
Column I, Annual VMT: Base of average VMT over 2 years, and document with 2 years of mile records.	d e
Column J, Conversion Factor (a hr to g/mi): Input a value only Baseline Emission Rates (Colum E) are in g/bhp-hr. Notice: ent in this column or Column H, no Use Moyer Table D-28.	if mns C – ter data
Column K, Percent operation in District: Only the operation win Air District's jurisdiction can be counted.	ithin the
<b>Columns L through N, New Em Rate:</b> NO <sub>x</sub> , ROG, and PM: Use Executive Order values.	Columns L through N: For FYE 2018 heavy-duty vehicle projects, including urban buses, the new vehicle must be certified to <i>exceed</i> the Model Year 2010 standard of 0.2 g/bhp-hr of NO <sub>x</sub> and 0.01 g/bhp-hr of PM, which are the default values. Some exceptions apply.
Note: FEL engines are not eligi	ble for TFCA funding.
example of an EO is shown at t engine family, displacement, h certification emission standard purpose of the TFCA Program, emission standards are shown instance, the Cummins 8.3 liter methane hydrocarbon (NOx+N and a particulate matter (PM)	wides the engine manufacturers with an Executive Order (EO) for each certified engine family. An the end of this attachment. The EO includes general information about the certified engine such as corsepower rating(s), intended service class, and emission control systems. It also shows the applicable is as well as the average emission levels measured during the actual certification test procedure. For the the certification emission <b>standards</b> are used to calculate emission reductions. The certification in the row titled "(DIRECT) STD" under the respective "FTP" column headings for each pollutant. For r natural gas engine illustrated in the sample was certified to a combined oxides of nitrogen plus non-IMHC) emission standard of 1.8 g/bhp-hr, a carbon monoxide (CO) emission standard of 15.5 g/bhp-hr, emission standard of 0.03 g/bhp-hr.
participation in an averaging, l	s emission values in the rows labeled "AVERAGE STD" and/or "FEL", the engine is certified for banking, and trading (AB&T) program. AB&T engines (i.e., all FEL-certified engines) <b>are not eligible</b> to m for new vehicle purchase projects since emission benefits from an engine certified to an FEL level are

	dure Fian Guidance FTE 2022	
	nn O, Replacement Vehicle	Column O: No Default.
	Must be supported by a quote	
	e new alt-fuel vehicle that	
	nds standards.  nn P, Must be supported by a	Column P: No Default.
	e for a new equivalent model	Column P. No Derault.
•	e that meets standards (for FYE	
	the Model Year 2010	
Stand		
Colum	nn Q, Fuel Savings.	Column Q: Default value is 0%. For new hybrid vehicles, on a case-by-case basis, the Air
		District may approve another value, based on documented fuel savings relative to a non-
		hybrid vehicle.
	nn R, Fuel Consumption Factor:	Column R: Most on-road engines are below 750 horsepower.
Use N	Noyer Table D-24.	
	nn S, Conversion Factor (g/mi to	Column S: No default.
	o-hr): Enter a value only if New	
	ion Rates (Columns L – N) are in	
1	and Fuel Basis is being used.	
	e: enter data in this column <b>or</b> nn T, not both. Use Moyer	
Table	•	
	nn T, Conversion Factor (g/bhp-	Column T: No default.
	g/mi): Enter a value only if New	
	ine Emission Rates (Columns L –	
N) are	e in g/bhp-hr. Notice: enter data	
in this	s column or Column S, not both.	
	Noyer Table D-28.	
	nn Y, # Years Effectiveness:	Column Y: 3 years is recommended - 4 yrs max.
	as in Cost Effectiveness Inputs.	
	nns AB – AG, Emission	Columns AB – AG. Calculated automatically. Enter zero (0) if a reduction cannot be claimed.
	ctions.	
	, , -	gulatory, contractual, or other legally binding requirement.
		e for both the baseline and the proposed engine, ensure value is zero (0) for ROG, as no ROG
	ion reductions can be claimed.	
l l	nn AM, TFCA Funding Amount:	
	unt of total TFCA funding. The	
l l	nn total must equal Total TFCA	
	rom Cost-Effectiveness Inputs at f worksheet.	
Lop of	WOINSHEEL.	

unty Program Manager Fund E	Expenditure Plan Guidance FYE 2022					
	Column AP, Actual Weighted CE w/o	Column AP: Calculated automatically.				
	CRFMiles Basis (\$/ton). Cost-					
	effectiveness based on emissions					
	including weighted PM. Must meet					
	Policy Requirements.					
	Column AQ, Actual Weighted	Column AQ: Calculated automatically.				
	Contract CE w/o CRFFuel Basis					
	(\$/ton). Cost-effectiveness based on					
	emissions including weighted PM.					
	Must meet Policy Requirements.					
	Emissions and cost-effectiveness calcula	tions <b>can only be based on fuel usage for the following vehicles:</b>				
	<ul> <li>Utility vehicles in idling service</li> </ul>					
	<ul> <li>Street sweepers</li> </ul>					
	<ul> <li>Solid waste collection vehicles</li> </ul>					
	All other vehicles must use mileage basi.	s. If using fuel-based calculations, usage must be based on two years of historical fuel usage				
	documentation (e.g., fuel logs or purchase receipts.)					
	Column AS, Baseline CO₂ Factor	Column AS: No default.				
	Based on Mileage: Enter value from					
	CO <sub>2</sub> Emission Factors Table for your					
	fuel and vehicle type (e.g., Medium					
	Heavy Duty Diesel is 1527 g/mi).					
	Column AT, Proposed Engine CO <sub>2</sub>	Column AT: No default.				
	Factor Based on Mileage: Enter value					
	from CO <sub>2</sub> Emission Factors Table for					
	your fuel and vehicle type (e.g.,					
	Medium Heavy Duty CNG 1098 g/mi).					
	Column AV, Baseline CO <sub>2</sub> Factor	Column AV: 10079 g/mi.				
	Based on Fuel Use: Enter value from					
	CO <sub>2</sub> Emission Factors Table for your					
	fuel type (e.g., Diesel is 10079 g/mi).	Column AM/Alo defeate				
	Column AW, Proposed Engine CO <sub>2</sub>	Column AW: No default.				
	Factor Based on Fuel Use: Enter value					
	from CO <sub>2</sub> Emission Factors Table for					
	your fuel type (e.g., CNG is 7244					
Alternative Fuel Mahielas	g/mi).					
Alternative Fuel Vehicles ar						
	e FYE 2022, EV Infrastructure FYE 2022					
Project Types = 4a-e, 12a-c, inc	cluding projects that replace heavy-duty v	ehicles with and buses with alternative fuel light-duty vehicles				
	Vehicles					
1						

# **County Program Manager Fund Expenditure Plan Guidance FYE 2022**

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<b>Alternative Fuel Vehicles</b>	# Years Effectiveness	3 years is recommended - 4 years max.				
and Infrastructure	Unit # / ID	List each vehicle separately.				
(Light- and Medium-Duty)	Current Standard and New Vehicle	Enter in Columns E and F the standard that a vehicle is certified to, as shown on the CARB				
	Standard	Executive Order.				
	Cost-Effectiveness	Column U, automatically calculated. Each vehicle must meet the Policy requirements for				
		cost-effectiveness.				
	<u>Infrastructure</u>					
	# Years Effectiveness	3 recommended, 4 max				
	Charger ID	List each charger separately				
	Description	Enter description				
	Туре	Select type from dropdown menu, types are defined in Notes and Assumptions tab				
	Qty	Enter quantity of charging stations				
	TFCA Funding	Enter total amount of TFCA funding requested for all charging stations				
	Annual Usage (kWh)	(Rate kW) x (charger's estimated hours of usage per day) x (365 days per year) x (quantity of chargers)				

#### Sample CARB Executive Order for Heavy-Duty On-Road Engines

California Environmental Protection Agency  CUMMINS INC.	EXECUTIVE ORDER A-021-0571-1 New On-Road Heavy-Duty Engines Page 1 of 2 Pages
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Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY		ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6				
			, ,		PROCEDURE	CLASS	DDI, TC, CAC, ECM, EGR, OC,	EMD				
2012	2 CCEXH0729XAD 11.9		11.9	Diesel	Diesel UB		SCR-U, PTOX					
	ENGINE'S IDLE	5 ADDITIONAL IDLE EMISSIONS CONTROL										
E	Exempt		N/A									
ENGINE (	L)	ENGINE MODELS / CODES (rated power, in hp)										
11.9		ISX11.9 385 / 3865:FR20350 (379), ISX12 385 / 3865:FR20350 (379)										
=liter; hp CNG/LI L/M/H I ECS=er up catalyst;	=horsepower, kw=k NG=compressed/liqu HDD=light/medium/h mission control syste DPF=diesel particu	ilowatt; hr efied natu eavy heavy m; TWC/0 late filter;	=hour; ral gas; LPG=liquefi y-duty diesel; UB=u DC=three-way/oxidiz PTOX=periodic trap	ed petroleum gas; E85=85% eth: ban bus; HDO=heavy duty Otto; ing catalyst; NAC=NOx adsorptio oxidizer; HO2S/O2S=heated/ox)	anol fuel; MF=mult on catalyst; SCR-U	fuel a.k.a. BF / SCR-N=selection	R 86.abc=Title 40, Code of Federal Regulation: =bi fuel; DF=dual fuel; FF=flexible fuel; :tive catalytic reduction – urea / – ammonia; W air-fuel-ratio sensor (a.k.a., universal or linear o	/U (prefix) =warm- xygen sensor);				
FBI=throttle super charge control mod ESS=er	e body fuel injection; ger, CAC=charge ai dule; EM=engine mo ngine shutdown systi	SFI/MFI= cooler, E dification; om (per 13	sequential/multi port GR / EGR-C=exhau 2 (prefix)=parallel; CCR 1956.8(a)(6)(A	fuel injection; DGI=direct gasolin st gas recirculation / cooled EGR; (2) (suffix)=in series; AMOX=am ()(1); 30g=30 g/hr NOx (per 13 C	e injection; GCAR PAIR/AIR=pulsed monia oxidation ca CR 1956.8(a)(6)(C	B=gaseous car l/secondary air talyst ); APS =intemates	buretor, IDI/DDI=indirect/direct diesel injection; injection; SPL=smoke puff limiter; ECM/PCM= al combustion auxiliary power system; ALT=alt	TC/SC=turbo/ engine/powertrain				
			pt=exempted per 13 CCR 1956.8(a)(6)(B) or for CNG/LNG fuel systems; N/A=not applicable (e.g., Otto engines and vehicles);									

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in	NMHC		NOx		NMHC+NOx		co		PM		нсно	
g/bhp-hr	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	0.20	0.20	*	*	15.5	15.5	0.01	0.01	*	
FEL	*	*	*	*	*	*	*	*	*	*	*	•
CERT	0.04	0.01	0.12	0.09	*	*	1.1	0.00	0.004	0.002	•	*
NTE	0.21		0.	30		*	19	9.4	0.	02		*

4 g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-26)

**BE IT FURTHER RESOLVED:** Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

**BE IT FURTHER RESOLVED:** For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels), 13 CCR 1971 (engine manufacturer diagnostic) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

This Executive Order hereby supersedes Executive Order A-021-057 dated December 7, 2011.

Executed at El Monte, California on this

\_\_ day of April 2012.

Annette Hebert, Chief Mobile Source Operations Division