



# Memorandum

**Date:** 01.19.17 **RE:** Citizens Advisory Committee  
January 25, 2017

**To:** Citizens Advisory Committee

**From:** Anna LaForte – Deputy Director for Policy and Programming *all*

**Subject:** **ACTION** – Adopt a Motion of Support for the Adoption of the Fiscal Year 2017/18 Transportation Fund for Clean Air Local Expenditure Criteria

## Summary

Transportation Fund for Clean Air (TFCA) funds come from a \$4 per vehicle surcharge collected by the California Department of Motor Vehicles on motor vehicle registrations in the nine-county Bay Area region. A portion of the funds (40 percent) is available to each county on a return-to-source basis from the Bay Area Air Quality Management District (Air District). These funds are used to implement strategies to improve air quality by reducing motor vehicle emissions in accordance with the Air District's Clean Air Plan. As the Program Manager for the City and County of San Francisco, the Transportation Authority is required to adopt Local Expenditure Criteria for the programming of the local TFCA funds. Our proposed Fiscal Year (FY) 2017/18 Local Expenditure Criteria (Attachment 1) are the same as those used in past cycles and are consistent with the Air District's TFCA policies for FY 2017/18. The criteria establish a clear prioritization methodology for applicant projects, including project types ranked by local priorities, emissions reduced, program diversity, project readiness, and past project sponsor delivery. Following Board approval of the Local Expenditure Criteria, we plan to issue the FY 2017/18 call for projects by March 7 and anticipate having approximately \$722,400 to program to projects.

## BACKGROUND

Transportation Fund for Clean Air (TFCA) funds come from a \$4 per vehicle surcharge collected by the California Department of Motor Vehicles on motor vehicle registrations in the nine-county Bay Area region and are distributed by the Bay Area Air Quality Management District (Air District). These funds are used to implement strategies to improve air quality by reducing motor vehicle emissions in accordance with the Air District's Clean Air Plan.

Project sponsors can apply for TFCA funds through two separate programs: a regional program administered by the Air District, which uses 60 percent of the TFCA funds, and a local return-to-source formula program, which uses the remaining 40 percent of the funds. As the TFCA Program Manager for San Francisco, the Transportation Authority is responsible for developing a list of projects to fund with the local TFCA funds.

## DISCUSSION

The purpose of this memorandum is to present our proposed Fiscal Year (FY) 2017/18 TFCA Local Expenditure Criteria and to seek a motion of support for the adoption of the criteria as presented.

TFCA regulations require that the Program Manager annually adopt Local Expenditure Criteria that will be the basis for developing a recommended project priorities list for local TFCA funds. The criteria need to be consistent with the Air District's adopted TFCA County Program Manager Fund Guidance.

**Schedule:** Our schedule for the FY 2017/18 TFCA program involves Board approval of the Local Expenditure Criteria in February 2017 in order to support release of the call for projects in early March. The proposed schedule for the call for projects is shown in Table 1 below.

**Table 1. Proposed Schedule for FY 2017/18 TFCA Call for Projects\***

Wednesday, January 25, 2017	Citizens Advisory Committee Meeting – ACTION Local Expenditure Criteria
Tuesday, February 14, 2017	Plans and Programs Committee Meeting – ACTION Local Expenditure Criteria
Tuesday, February 28, 2017	Transportation Authority Board Meeting – ACTION Local Expenditure Criteria
By Tuesday, March 7, 2017	Transportation Authority issues TFCA Call for Projects
Friday, April 21, 2017	TFCA Applications Due to the Transportation Authority
Wednesday, May 24, 2017	Citizens Advisory Committee Meeting – ACTION TFCA staff recommendations
Tuesday, June 20, 2017	Plans and Programs Committee Meeting – ACTION TFCA staff recommendations
Tuesday, June 27, 2017	Transportation Authority Board Meeting – ACTION TFCA staff recommendations
Aug-Sept 2017 (estimated)	Funds expected to be available to project sponsors

\*Meeting dates are subject to change. Please check the Transportation Authority's website for the most up-to-date schedule ([www.sfcta.org/agendas](http://www.sfcta.org/agendas)).

**Local Expenditure Criteria:** Some counties have established a complex point system for rating potential TFCA projects, while other counties have utilized a general policy with a set of priorities. As a combined City and County, San Francisco does not have multiple jurisdictions applying for funds; however, there is considerable diversity in the types of projects initiated in the county. Compared to more auto-oriented counties, the revenue that San Francisco receives from this program (approximately \$722,400 in new revenues annually) is relatively small and can normally fund only a few (e.g., four to six) projects.

Our assessment is that over time the Transportation Authority has been better served by not assigning a point system to evaluate applications. Our experience with previous application cycles shows that the projected TFCA revenues generally are sufficient to fund the majority of the projects that satisfy all of the TFCA eligibility requirements established by the Air District, including a requirement that each project must achieve a cost effectiveness ratio as established in the adopted TFCA County Program Manager Fund Guidance.

As in prior years, only applicant projects that meet all of the Air District's TFCA eligibility requirements will be prioritized for funding using the Transportation Authority's Local Expenditure Criteria. Our

proposed FY 2017/18 Local Expenditure Criteria, shown in Attachment 1, are the same as those used in previous years. They include consideration of the following factors:

- Project type
- Cost effectiveness
- Project delivery
- Program diversity
- Other considerations (e.g., the project sponsor's recent track record in delivering TFCA projects)

We provided input to the Air District on the its draft TFCA FY 2017/18 policies, working with the Transportation Authority's Technical Working Group, the other Bay Area Congestion Management Agencies and San Francisco's representatives on the Air District Board. The Air District's final TFCA FY 2017/18 policies shown in Attachment 2 incorporate several revisions. Notable examples include:

- Increased the cost-effectiveness limit for shuttle projects;
- Allowed upgrades to an existing bicycle facility when converting from a Class-2 or Class-3 to a Class-1 or Class-4 bike facility; and
- Relaxed requirements for bike share projects;
- Revised policy language for Alternative Fuel Light-Duty Vehicles and Alternative Fuel Heavy-Duty Vehicles and Buses categories;
- Added On-Road Goods Movement Truck Replacements as an eligible category for the replacements of diesel-power trucks that are used for goods movement.

We strongly advocated for and are appreciative of the changes allowing upgrades to existing bicycle facilities, such as adding a buffer or curb to separate an existing standard bike lane from car traffic – something that was previously ineligible for TFCA funds. Improved bike facilities have been shown to increase usage by bicyclists, however, in previous years, only new facilities on streets with no bicycle facilities at all were eligible for TFCA funds. Upgrades are a major need in San Francisco, where our bike network is already extensive, but where older-style bike lanes do not always provide the level of comfort and safety necessary to attract less experienced riders.

We continue to work with the Air District and other Congestion Management Agencies (CMAs) to improve the TFCA program's effectiveness at achieving air quality benefits, decrease its administrative burden, and allow the CMAs more flexibility to address each county's unique air quality challenges and preferred methods of mitigating mobile source emissions.

## ALTERNATIVES

1. Adopt a motion of support for the adoption of the FY 2017/18 TFCA Local Expenditure Criteria, as requested.
2. Adopt a motion of support for the adoption of the FY 2017/18 TFCA Local Expenditure Criteria, with modifications.
3. Defer action, pending additional information or further staff analysis.

## FINANCIAL IMPACTS

Approval of the Local Expenditure Criteria will not have any impact on the Transportation Authority's adopted FY 2016/17 budget, but it will allow the Transportation Authority to apply for approximately

\$722,400 (including estimated de-obligations) in FY 2017/18 local TFCA funds that can then be programmed to eligible San Francisco projects. These funds will be incorporated into the FY 2017/18 budget.

#### **RECOMMENDATION**

Adopt a motion of support for the adoption of the FY 2017/18 TFCA Local Expenditure Criteria.

Attachments (2):

1. Draft FY 2017/18 TFCA Local Expenditure Criteria
2. County Program Manager Fund Expenditure Plan Guidance – FY Ending 2018



## Attachment 1

### Fiscal Year 2017/18 Transportation Fund for Clean Air (TFCA)

#### DRAFT LOCAL EXPENDITURE CRITERIA

The following are the Fiscal Year 2017/18 Local Expenditure Criteria for San Francisco's TFCA County Program Manager Funds.

#### ELIGIBILITY SCREENING

In order for projects to be considered for funding, they must meet the eligibility requirements established by the Air District's TFCA County Program Manager Fund Policies for Fiscal Year 2017/18. Consistent with the policies, a key factor in determining eligibility is a project's cost effectiveness (CE) ratio. The TFCA CE ratio is designed to measure the cost effectiveness of a project in reducing motor vehicle air pollutant emissions and to encourage projects that contribute funding from non-TFCA sources. TFCA funds budgeted for the project are divided by the project's estimated emissions reduction. The estimated reduction is the weighted sum of reactive organic gases (ROG), oxides of nitrogen (NO<sub>x</sub>), and particulate matter (PM) emissions that will be reduced over the effective life of the project, as defined by the Air District's guidelines.

TFCA CE is calculated by inputting information provided by the applicant into the Air District's CE worksheets. Transportation Authority staff will be available to assist project sponsors with these calculations, and will work with Air District staff and the project sponsors as needed to verify reasonableness of input variables. The worksheets also calculate reductions in carbon dioxide (CO<sub>2</sub>) emissions, which are not included in the Air District's official CE calculations, but which the Transportation Authority considers in its project prioritization process.

**Consistent with the Air District's Guidelines, in order to be eligible for Fiscal Year 2017/18 TFCA funds, a project must meet the CE ratio for emissions (i.e., ROG, NO<sub>x</sub>, and PM) reductions as specified in the guidelines for each project type. Projects that do not meet the appropriate CE threshold cannot be considered for funding.**

#### PROJECT PRIORITIZATION

Candidate projects that meet the cost effectiveness thresholds will be prioritized for funding based on the two-step process described below:

Step 1 - TFCA funds are programmed to eligible projects, as prioritized using the Transportation Authority Board-adopted Local Priorities (see next page).

Step 2 - If there are TFCA funds left unprogrammed after Step 1, the Transportation Authority will work with project sponsors to develop additional TFCA candidate projects. This may include refinement of projects that were submitted for Step 1, but were not deemed eligible, as well as new projects. This approach is in response to an Air District policy that does not allow County Program Managers to rollover any unprogrammed funds to the next year's funding cycle. If Fiscal Year 2017/18 funds are not programmed by November 2017, funds can be redirected (potentially to non-San Francisco projects) at the Air District's discretion. New candidate projects must meet all of the TFCA

eligibility requirements, and will be prioritized based on the Transportation Authority Board's adopted Local Priorities.

#### Local Priorities

The Transportation Authority's Local Priorities for prioritizing TFCA funds include the following factors:

#### **Project Type** – In order of priority:

- 1) Zero emissions non-vehicle projects including, but not limited to, bicycle and pedestrian facility improvements, transit priority projects, traffic calming projects, and transportation demand management projects;
- 2) Shuttle services that reduce vehicle miles traveled (VMT);
- 3) Alternative fuel vehicles and alternative fuel infrastructure; and
- 4) Any other eligible project.

**Emissions Reduced and Cost Effectiveness** – Priority will be given to projects that achieve high CE (i.e. a low cost per ton of emissions reduced) compared to other applicant projects. The Air District's CE worksheet predicts the amount of reductions each project will achieve in ROG, NO<sub>x</sub>, PM, and CO<sub>2</sub> emissions. However, the Air District's calculation only includes the reductions in ROG, NO<sub>x</sub>, and PM per TFCA dollar spent on the project. The Transportation Authority will also give priority to projects that achieve high CE for CO<sub>2</sub> emission reductions based on data available from the Air District's CE worksheets. The reduction of transportation-related CO<sub>2</sub> emissions is consistent with the City and County of San Francisco's 2013 *Climate Action Strategy*.

**Project Delivery** – Priority will be given to projects that are ready to proceed and have a realistic implementation schedule, budget, and funding package. Projects that cannot realistically commence in calendar year 2018 or earlier (e.g. to order or accept delivery of vehicles or equipment, begin delivery of service, award a construction contract, start the first TFCA-funded phase of the project) and be completed within a two-year period will have lower priority. Project sponsors may be advised to resubmit these projects for a future TFCA programming cycle.

**Program Diversity** – Promotion of innovative TFCA projects in San Francisco has resulted in increased visibility for the program and offered a good testing ground for new approaches to reducing motor vehicle emissions. Using the project type criteria established above, the Transportation Authority will continue to develop an annual program that contains a diversity of project types and approaches and serves multiple constituencies. The Transportation Authority believes that this diversity contributes significantly to public acceptance of and support for the TFCA program.

**Other Considerations** – Projects that are ranked high in accordance with the above local expenditure criteria may be lowered in priority or restricted from receiving TFCA funds if either of the following conditions applies or has applied during Fiscal Years 2015/16 or 2016/17:

- **Monitoring and Reporting** – Project sponsor has failed to fulfill monitoring and reporting requirements for any previously funded TFCA project.
- **Implementation of Prior Project(s)** – Project sponsor has a signed Funding Agreement for a TFCA project that has not shown sufficient progress; the project sponsor has not implemented the project by the project completion date without formally receiving a time extension from the Transportation Authority; or the project sponsor has violated the terms of the funding agreement.



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

# County Program Manager Fund Expenditure Plan Guidance For Fiscal Year Ending 201~~8~~7

## Transportation Fund for Clean Air



Bay Area Air Quality Management District  
375 Beale Street, Suite 600 San Francisco, CA 94105  
~~Adopted November 7~~~~December 16~~~~December 5~~23, 201~~6~~5

*Revised: May 18, 2016*

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## *Changes from Fiscal Year Ending (FYE) ~~2016-2017~~ to FYE ~~2017~~2018*

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Based on feedback and comments received during the public comment period, the following changes have been made:

- Streamlined and improved wording to clarify and to ensure adherence to state statute;
- Aligned with FYE 2017 TFCA Regional Fund Policies as follows:
  - Increased the cost-effectiveness limit for shuttle projects
  - Revised policy language for *Alternative Fuel Light-Duty Vehicles* and *Alternative Fuel Heavy-Duty Vehicles and Buses* categories;
- Added *On-Road Goods Movement Truck Replacements* as an eligible category for the replacements of diesel-power trucks that are used for goods movement;
- Allowed upgrades to an existing bicycle facility when converting from a Class-2 or Class-3 to a Class-1 or Class-4 bike facility; and
- Relaxed requirements for bike share projects.

## *Reporting Schedule for FYE 201~~8~~7*

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The following is the schedule of items that must be submitted by the County Program Manager to the Air District:

- March 3, 201~~7~~6 - Expenditure Plan application for FYE 201~~8~~7** - The application must include:
  - Summary Information Form, signed and dated by County Program Manager's Executive Director
  - Summary Information Addendum Form (if applicable)
- Within 6 months of Air District Board of Director's approval of allocation, and within 3 months for projects that do not conform to all TFCA Polices:**

For each project:

  - Project Information Form (sample can be found in Appendix G)
  - Cost-effectiveness Worksheet (instructions can found in Appendix H)
- Every May 31** (See Page [8-9](#))
  - **Funding Status Report Form** – Include all open projects and projects closed since July 1.
  - **Final Report Form** – For projects closed July 1-December 31 (and optionally those closing later), submit both a Final Report Form and a final Cost-effectiveness Worksheet.
- Every October 31** (See Page [8-9](#))
  - **Interim Project Report Form** – Submit this form for every open project.

- **Funding Status Report Form** – Include all open projects and projects closed since January 1.
- **Final Report Form** – For projects closed January 1-June 30 (and optionally those closing later), submit both a Final Report Form and a final Cost-effectiveness Worksheet.

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

## *Transportation Fund for Clean Air (TFCA)*

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### **Introduction**

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

To protect public health, the 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 [2010 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 2010 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.

### **The TFCA Program**

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To fund the implementation of TCMs and MSMs, the State Legislature authorized the Air District to impose a \$4 surcharge on motor vehicle registration fees paid within the nine-county Bay Area. These revenues are allocated by the Air District through the Transportation Fund for Clean Air (TFCA). TFCA grants are awarded to public and private entities to implement eligible projects.

TFCA-funded projects have many benefits, including the following:

- √ 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
- √ Improving transportation options
- √ Reducing traffic congestion

Forty percent (40%) of these funds are allocated to a designated county program manager within each of the nine counties within the Air District's jurisdiction. This allocation is referred to as the TFCA County Program Manager Fund. The remaining sixty percent (60%) of these funds are directed to Air District-sponsored programs and to Air District-administered TFCA Regional Fund.

This document provides guidance on the expenditure of the 40% of TFCA funding provided to the County Program Managers.

## Eligible TFCA Project Types

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TFCA legislation requires that projects meet eligibility requirements, as described in the California Health and Safety Code (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 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.*

## *TFCA County Program Manager Fund*

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### **Roles and Responsibilities**

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**County Program Manager**—Each County Program Manager is required to:

- 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 2017 (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.
- 4. Provide funds only to projects that comply with the Air District Board-Approved Policies and/or 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.
- 6. Limit administrative costs in handling of TFCA funds to no more than ~~five~~ 6.25(5) percent of the funds received.
- 7. Allocate (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**—The Air District is required to:

- 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 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.
- 4. Re-distribute unallocated TFCA funds from the County Program Manager Fund.
- 5. Limit TFCA administrative costs to a maximum of 6.25five percent ~~(5%)~~.

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

- 6. Conduct audits of TFCA programs and projects.
- 7. Hold a public hearing in the case of any misappropriation of revenue.

## Attributes of Cost-Effective Projects

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- 1.✓ Project purchases or provides service using best available technology or cleanest vehicle (e.g., achieves significant petroleum reduction, utilizes vehicles that have 2010 and newer engines, is not a Family Emission Limit (FEL) engine, and/or have zero tailpipe emissions).
- 2.✓ Project is delivered or placed into service within one year and/or significantly in advance of regulatory changes (e.g., lower engine emission standards).
- 3.✓ Project requests relatively low amount of TFCA funds; Grantee provides significant matching funds.
- 4.✓ The following are additional attributes of cost-effective projects for specific project categories:
  - 1.○ For vehicle trip reduction projects (e.g., bike facilities, shuttle/feeder bus service, ridesharing):
    - 1.▪ Project serves relatively large % of riders/participants that otherwise would have driven alone over a long distance.
    - 2.▪ Project provides “first and last mile” connection between employers and transit.
    - 3.▪ Service operates on a route (service and non-service miles) that is relatively short in distance.
  - 2.○ For vehicle-based projects:
    - 1.▪ Vehicle has high operational use, annual mileage, and/or fuel consumption (e.g., taxis, transit fleets, utility vehicles).
  - 3.○ For arterial management and smart growth projects:
    - 1.▪ Pre- and post-project counts demonstrate high usage and potential to affect mode or behavior shift that reduces emissions.
    - 2.▪ Project demonstrates a strong potential to reduce motor vehicle trips by significantly improving mobility via walking, bicycling, and improving transit.
    - 3.▪ Project is located along high volume transit corridors and/or is near major activity centers such as schools, transit centers, civic or retail centers.
    - 4.▪ Project is associated with a multi-modal transit center, supports high-density mixed-use development or communities.

## Attributes of Project Readiness

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Projects must meet Readiness Policy (Policy #6). Beginning in FYE 2017, the Air District and the County Program Managers are directed to enforce the two-year time limit for bicycle projects (i.e., any projects under Policy # 29), the County Program Managers should cancel any projects that are not completed within the two-year time limit, and the Air District will not consider any extension requests for bicycle projects that have already been granted a two-year extension from the County Program Manager.<sup>2</sup> For all other project categories, County Program Managers may grant a two-year extension, for a total of four years to implement projects.

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<sup>2</sup> Per direction provided by the Air District’s Mobile Source Committee members on October 22, 2015.

Therefore, County Program Managers are strongly encouraged to require that bicycle projects have completed the following activities prior to being awarded TFCA funds in order to ensure the successful completion of projects:

1. ~~●~~ Planning (drawings)
2. ~~●~~ Obtaining permits
3. ~~●~~ Conducting environmental review/approvals.

Furthermore, County Program Managers are strongly encouraged to ensure that all projects meet project readiness prior to being awarded TFCA funds.

## Program Schedule

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**Program Schedule for the FYE 201~~87~~ Cycle** (*County Program Manager deadlines are italicized*)

<del>December</del> <i>December 7<del>14</del>, 2015</i> <del>2016</del> ( <i>tentative</i> )	<i>Expenditure Plan Application Guidance issued by Air District, including funding estimates</i>
<del>March</del> <i>March 3, 2017</i>	<i>Deadline for County Program Managers to submit Expenditure Plan application</i>
<del>April 27</del> <i>May 5, 2017</i> ( <i>tentative</i> )	<i>Proposed Expenditure Plan funding allocations reviewed by Air District Mobile Source Committee</i>
<del>May 31</del> , 2017 ( <i>tentative</i> )	<i>Expenditure Plan funding allocations considered for approval by Air District Board of Directors</i>
<del>May 12</del> , 2017 ( <i>tentative</i> )	<i>Air District provides Funding Agreements for funding allocations to County Program Managers for signature (<del>tentative</del>)</i>
<del>May 31</del> , 2017	<i>Funding Status Report and Final Reports due for projects from FYE 201<del>67</del> and prior years</i>
<del>August 18</del> <i>August 31, 2017</i>	<i>Deadline: Within three months of Board approval, County Program Manager submits request for Air District approval of any projects that do not conform to TFCA policies</i>
<del>October</del> <i>October 31, 2017</i>	<i>Funding Status Report, Interim Project Reports, and Final Reports due for projects from FYE 201<del>76</del> and prior years</i>
<del>November 18</del> <i>November 31, 2017</i>	<i>Deadline: Within six months of Board approval, County Program Manager provides Cost-effectiveness Worksheets and Project Information Forms for new projects and programming</i>
<del>May 31</del> , 201 <del>87</del>	<i>Funding Status Report and Final Reports due for projects from FYE 201<del>87</del> and prior years</i>

## Expenditure Plan Application Process

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~~By December 14, 2015~~ ~~2016~~ (*tentative*), the Air District will email 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 ~~are due Thursday~~ ~~Friday, March 3, 2016~~ ~~2017~~ and ~~must be~~ must be submitted both electronically via email to [lhui@baaqmd.gov](mailto:lhui@baaqmd.gov) and as a hard copy by mail or delivery service to:

Chengfeng Wang, Strategic Incentives Division  
Bay Area Air Quality Management District  
Strategic Incentives Division  
~~939 Ellis Street~~  
~~San Francisco, CA 94109375 Beale Street, Suite 600~~  
~~San Francisco, CA 94105~~

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

## Programming of Funds

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County Program Managers must allocate (program) TFCA funds within *six months* of Air District Board approval of a County Program Manager's Expenditure Plan and submit a hard copy of: 1) the Cost-effectiveness Worksheet and 2) the Project Information Form for each new project or supplemental allocation to an existing project.

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 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.)

## Project Information and Reporting Forms

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The following Air District-approved forms will be emailed to the County Program Managers or posted on either the Air District's website at: [www.baaqmd.gov/tfca4pm](http://www.baaqmd.gov/tfca4pm) or another online platform.

➤ **Cost-effectiveness Worksheet (due within 6 months of Air District Board approval of Expenditure Plan, and for FYE 201~~6~~7 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 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 TFCA funds per ton of emissions reduced (i.e., reactive organic gases (ROG), oxides of nitrogen (NO<sub>x</sub>) and weighted particulate matter less than 10 microns in diameter (PM<sub>10</sub>)), **as specified in Policy #2.**

County Program Managers must submit a Cost-effectiveness Worksheet in MS Excel format for each project to the Air District pre- and post-project.

1. ➤ **For projects that provide a service** (e.g., ridesharing, shuttle, bike share projects), post-project evaluations should be completed using the Cost-Effectiveness Worksheet version from the **year of the project's start date** (which may be the same as the pre-application Cost-effectiveness Worksheet).
2. ➤ **For all other projects**, post-project evaluations should be completed using the **most recent version** of the Cost-effectiveness Worksheet for the year the project was completed.

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 you must provide documentation and information to support alternate values and assumptions to the Air District for review and evaluation.

1. ➤ Cost-effectiveness worksheets must be submitted in a Microsoft Excel spreadsheet with the filename structure listed below.

1.○ [Last two digits of FYE][abbreviated county code][sequential project number]\_CE-Submitted-[Project Name].xlsx

2.○ Example: ~~17~~SC12~~18~~SC12\_CE-Submitted-SanJoseZeroEmissionShuttle.xlsx

➤ **Project Information Form (due within 6 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 each new project funded, 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.

1.➤ Information Forms must be submitted in a Microsoft Word document with the filename structure listed below.

1.○ [Last two digits of FYE][abbreviated county code][sequential project number]\_ProjInfo-[Project Name].docx

2.○ Example: ~~18~~SC12\_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 copy of this form is attached in Appendix C.

1.➤ **Final Report Form (due October 31 and May 31; tentatively available August ~~2016~~2017)**

A Final Report Form is due at the conclusion of every project. ~~These forms are available for download from the TFCA County Program Manager website.~~ The Final Report Forms are specific to each type of project. Final Report Forms are due to the Air District semi-annually as follows:

1.➤ **Due October 31:** *Projects that closed Jan 1–Jun 30 (and optionally those closing later)*

2.➤ **Due May 31:** *Projects that closed Jul 1–Dec 31 (and optionally those closing later)*

Note, in previous years these report forms were titled “Project Monitoring Forms”.

2.➤ **Annual Interim Project Report Form (due October 31; tentatively available August 201~~7~~6)**

For each active/open project, an Interim Project Report Form is due annually on October 31. ~~These forms are available for download from the TFCA County Program Manager website.~~ This report provides status information on project progress and fund usage. (Note, in previous years these report forms were titled “Project Status Reporting Forms”.)

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

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## 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 potential ~~offer~~ 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: Linda Hui, ~~Administrative Analyst~~Staff Specialist, (415) 749-4796,  
[lhui@baaqmd.gov](mailto:lhui@baaqmd.gov)

## *Appendix A: Guidelines for Eligible TFCA Reimbursable Costs*

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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:

- ~~1.~~ Documented hourly labor charges (salaries, wages, and benefits) directly and solely related to implementation of the TFCA project;
- ~~2.~~ Capital equipment and installation costs;
- ~~3.~~ Shuttle driver labor and equipment maintenance costs;
- ~~4.~~ Contractor labor charges related to the TFCA project;
- ~~5.~~ 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
- ~~6.~~ 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.

### **Administrative Project Costs**

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. Administrative project costs that are reimbursable to a Grantee are limited to a maximum of ~~6.25~~five percent (5%) 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.

- ~~1.~~ 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 the preparation of a TFCA application or costs incurred prior to the execution of the Funding Agreement are not eligible for reimbursement;
- ~~1.~~ Accounting for TFCA funds; ~~and~~
- Fulfilling all monitoring, reporting, and record-keeping requirements specified in the TFCA Funding Agreement, including the preparation of reports, invoices, and final reports; ~~and~~
- ~~2.~~ Documented indirect administrative costs associated with administering the project, including reasonable overhead costs of utilities, office supplies, reproduction and managerial oversight.

~~Additionally, documented indirect administrative costs associated with administering the project, including reasonable overhead costs of utilities, office supplies, reproduction and managerial oversight are also eligible.~~

The project implementation and administrative project costs that are approved by the County Program Manager shall be described in a Funding Agreement. 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.

## Appendix B: Sample Expenditure Plan Application

### SUMMARY INFORMATION

County Program Manager Agency Name: \_\_\_\_\_

Address: \_\_\_\_\_

#### PART A: NEW TFCA FUNDS

1. Estimated FYE 2017-2018 DMV revenues (based on projected CY2015-CY2016 revenues): Line 1: \_\_\_\_\_
2. Difference between prior-year estimate and actual revenue: Line 2: \_\_\_\_\_
  - a. Actual FYE 2015-2016 DMV revenues (based on CY2014CY2015): \_\_\_\_\_
  - b. Estimated FYE 2015-2016 DMV revenues ~~(based on CY2014CY2015)~~: \_\_\_\_\_

(‘a’ minus ‘b’ equals Line 2.)
3. Estimated New Allocation (Sum of Lines 1 and 2): Line 3: \_\_\_\_\_
4. Interest income. List interest earned on TFCA funds in calendar year 20152016. Line 4: \_\_\_\_\_
5. Estimated TFCA funds budgeted for administration:<sup>1</sup> Line 5: \_\_\_\_\_  
(Note: This amount may not exceed 6.25% of Line 3.)
6. Total new TFCA funds available in FYE 2017-2018 for projects and administration Line 6: \_\_\_\_\_  
(Add Lines 3 and 4. These funds are subject to the six-month allocation deadline.)

#### PART B: TFCA FUNDS AVAILABLE FOR REPROGRAMMING

7. Total amount from previously funded projects available for reprogramming to other projects. (Enter zero (0) if none.) Line 7: \_\_\_\_\_  
(Note: Reprogrammed funds originating from pre-2006 projects are not subject to the six-month allocation deadline.)

#### PART C: TOTAL AVAILABLE TFCA FUNDS

<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.

**8. Total Available TFCA Funds** (*Sum of Lines 6 and 7*) **Line 8:** \_\_\_\_\_

9. Estimated Total TFCA funds available for projects (*Line 8 minus Line 5*) **Line 9:** \_\_\_\_\_

I certify that, to the best of my knowledge, the information contained in this application is complete and accurate.

Executive Director Signature: \_\_\_\_\_

Date: \_\_\_\_\_

### 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 REPROGRAMMING \$ \_\_\_\_\_

*(Enter this amount in Part B, Line 7 of Summary Information form)*

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*\* Enter UB (for projects that were completed under budget) and CP (for cancelled project).*

## Appendix C: Sample Funding Status Report Form

County Program Manager: \_\_\_\_\_

Date: \_\_\_\_\_

Report Period:  May 31st  Oct. 31st

CP Cancelled Project<sup>1</sup>  Update by CMA

UB Cmpl Under Budget  From Air District Database

**Column A** Funds received should be listed as a negative; a balance from closure under budget listed as a positive

**Column B** 100% = All components/reports completed, approved and \$ paid out  
90% = All components completed; \$ paid out; awaiting Final Report

**Please provide any updated information in the yellow columns. If you update other cells, please shade them yellow as well.**

TFCA Project #	Project Title	Project Sponsor	Current TFCA Funds Awarded	Current TFCA Funds Awarded per CMA Update	A		B			Project Completion Date	Project Completion Date per CMA Update	Final Rpt Due to CMA per Agrmnt	Final Rpt Due Date requested by CMA	Comments
					Funds from CP/UB	TFCA\$ Reprgm to Project# or FY	TFCA\$ Paid Out To Date	TFCAS Paid Out per CMA Update	% Cmpl					

I \_\_\_\_\_ (print name), certify that the information provided is complete and correct; and that if any extensions have been approved, that significant progress has been made on the project(s) for which the funds were granted, pursuant to HSC 44242(d).

\_\_\_\_\_(Signature)  
County Program Manager Liaison

<sup>1</sup> Cancelled projects include projects cancelled by the project sponsor, by the county program manager, and by the Air District. Provide explanation for the cancellation (e.g., ineligible) under the *Comments* Field.



## Appendix D: Board-Adopted TFCA County Program Manager Fund Policies for FYE 20178

Adopted November 186, 20165

The following Policies apply ~~only~~ 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 \(FYE\) 2018](#).

### BASIC ELIGIBILITY

**3.1. 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 for FYE 20178.

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.

**4.2. TFCA Cost-Effectiveness:** Projects must not exceed the maximum cost-effectiveness (C-E) limit noted in Table 1. Cost-effectiveness (\$/weighted ton) is based on the ratio of TFCA funds awarded divided by the sum of surplus emissions reduced of reactive organic gases (ROG), nitrogen oxides (NOx), and weighted PM10 (particulate matter 10 microns in diameter and smaller) over a project’s useful life. 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 FYE 20178 County Program Manager Fund Projects**

Policy No.	Project Category	Maximum C-E (\$/weighted ton)
22	Alternative Fuel Light-Duty Vehicles	250,000
23	Reserved	Reserved
24	Alternative Fuel Heavy-Duty Vehicles and Buses	250,000
25	<del>Alternative Fuel Bus Replacement</del> <a href="#">On-Road Goods Movement Truck Replacements</a>	<del>250,000</del> <a href="#">90,000</a>
26	Alternative Fuel Infrastructure	250,000
27	Ridesharing Projects	150,000
28.a.-h.	Shuttle/Feeder Bus Service – Existing	200,000; 250,000 for services in CARE Areas or PDAs

28.i.	Shuttle/Feeder Bus Service - Pilot	Year 1 - 250,000 Year 2 -- <del>see Policy #28.a-h.175,000</del>
28.i.	Shuttle/Feeder Bus Service – Pilot in CARE Areas or PDAs	Years 1 & 2 - 500,000 <del>Year 2 - 200,000</del> Year 3 - <del>see Policy #28.a-h.175,000</del>
29	Bicycle Projects	250,000
30	<del>Bay Area</del> Bike Share	500,000
31	Arterial Management	175,000
32	Smart Growth/Traffic Calming	175,000

**6.3. 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.

**7.4. Consistent with Existing Plans and Programs:** All projects must comply with the ~~T~~ransportation ~~C~~ontrol ~~measures~~ and ~~M~~obile ~~S~~ource ~~C~~ontrol measures included in the Air District's most recently approved ~~strategies plan~~ for achieving and maintaining State and national ~~ambient air quality ozone~~ standards, ~~those plans and programs established which are adopted~~ pursuant to HSC sections 40233, 40717, and 40919, and, when specified, ~~with~~ other adopted ~~federal~~, State, regional, and local plans and programs.

**8.5. 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 only eligible to apply for 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).

**9.6. Readiness:** Projects must commence by the end of calendar year 2017. ~~8.~~ ~~For purposes of this policy, "Commence" means includes a tangibly preparatory actions taken in connection with the project's operation or implementation, for which the grantee can provide documentation of the commencement date and action performed.~~ ~~For purposes of this policy, "Commence" can mean 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.~~

**10.7. Maximum Two Years Operating Costs:** ~~Unless otherwise specified in policies #22 through #32, TFCA County Program Manager Funds may be used to support up to two years of operating costs for Projects that provide a service-based projects (e.g., such as ridesharing, programs and shuttle and feeder bus service projects), are eligible to apply for a period of up to two (2) years, except for bike share projects, which are eligible to apply for a period of up to five (5) years.~~ Grant applicants that seek TFCA funds for additional years must reapply for funding in the subsequent funding cycles.

**APPLICANT IN GOOD STANDING**

**11.8. Independent Air District Audit Findings and Determinations:** Grantees who have failed either the fiscal audit or the performance 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 fiscal audit means a final audit report that includes an uncorrected audit finding that confirms an ineligible expenditure of TFCA funds. A failed performance audit means that the program or project was not implemented in accordance with the applicable Funding Agreement or grant agreement.

A failed fiscal or performance 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).

**12.9. 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 ~~only~~ 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.

**13.10. 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

**14.11. Duplication:** Duplicative projects are not eligible. Projects that propose to expand and achieve additional emission reductions of existing projects are eligible (e.g., shuttle service or route expansion, previously-funded project that has completed its Project Useful Life).

**15.12. Planning Activities:** A grantee may not use any TFCA funds for planning related activities unless they are directly related to the implementation of a project or program that result in emission reductions.

**16.13. Employee Subsidies:** Projects that provide a direct or indirect financial transit or rideshare subsidy or shuttle/feeder bus service exclusively to the grantee's employees are not eligible.

**17.14. Cost of Developing Proposals:** Grantees may not use any TFCA funds to cover the costs of developing grant applications ~~for TFCA funds~~.

#### USE OF TFCA FUNDS

**18.15. Combined Funds:** Unless otherwise specified in policies #22 through #32, 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 credits. ~~{For example, County Program Manager-funded projects are eligible for}~~ may be combined with Congestion Mitigation and Air Quality (CMAQ) funds because CMAQ does not require emissions reductions for funding eligibility. ~~}~~

**19.16. Administrative Costs:** The County Program Manager may not expend more than ~~five~~ 6.25 percent ~~{5%}~~ 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.

**20.17. 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.

**21.18. 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.

~~22.19. Reserved. Incremental Cost (for the purchase or lease of new vehicles): For new vehicles, TFCA funds awarded may not exceed the incremental cost of a vehicle after all rebates, credits, and other incentives are applied. Such financial incentives include manufacturer and local/state/federal rebates, tax credits, and cash equivalent incentives. Incremental cost is the difference in cost between the purchase or lease price of the new vehicle, and the price of its new conventional vehicle counterpart that meets, but does not exceed, the most current emissions standards at the time that the project is evaluated.~~

~~23.20. Reserved.~~

~~24.21. Reserved.~~

#### ELIGIBLE PROJECT CATEGORIES

#### **25.22. Alternative Fuel Light-Duty Vehicles:**

~~**Eligibility:** These projects are intended to accelerate the deployment of qualifying alternative fuel vehicles that operate within the Air District's jurisdiction. All of the following conditions must be met for a project to be eligible for TFCA funds: For TFCA purposes, light-duty vehicles are those with a gross vehicle weight rating (GVWR) of 14,000 lbs. or lighter. Eligible alternative light-duty vehicle types and equipment eligible for funding are:~~

- ~~a. Vehicles purchased and/or leased have a gross vehicle weight rating (GVWR) of 14,000 lbs. or lighter.~~
- ~~b. Purchase or lease of Vehicles are 2017 model year or newer~~
  - ~~i. hybrid-electric, electric, fuel cell, and CNG/LNG vehicles that are certified by the California Air Resources Board (CARB) as meeting established super ultra-low emission vehicle (SULEV), partial zero emission vehicle (PZEV), advanced technology-partial zero emission vehicle (AT-PZEV), or zero emission vehicle (ZEV) standards; or-~~
  - ~~ii. Purchase or lease of new electric neighborhood vehicles (NEV) as defined in the California Vehicle Code.~~
- ~~c. For TFCA purposes, light-duty vehicles are those with a gross vehicle weight rating (GVWR) of 14,000 lbs. or lighter. Vehicles must be maintained and operated within the Air District's jurisdiction.~~
- ~~b. The amount of TFCA funds awarded may not exceed 90% of the vehicle's cost after all other grants and applicable manufacturer and local/state/federal rebates and discounts are applied.~~

d.

Gasoline and diesel (non-hybrid) vehicles are not eligible for TFCA funds. Funds are not available for non-fuel system upgrades, such as transmission and exhaust systems, and should not be included in the ~~incremental~~ cost of the project.

Grantees may request authorization of up to 50% 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.

~~26-23.~~ Reserved.

**27-24. Alternative Fuel Heavy-Duty Vehicles and Buses:**

**Eligibility-** These projects are intended to accelerate the deployment of qualifying alternative fuel vehicles that operate within the Air District's jurisdiction. All of the following ~~additional~~ conditions must be met for a project to be eligible for TFCA Funds:

a. Vehicles purchased and/or leased either have a GVWR greater than 14,000 lbs or are classified as urban buses; ~~and~~

~~b.~~ Vehicles are 20175 model year or newer hybrid-electric, electric, CNG/LNG, and hydrogen fuel cell vehicles ~~approved~~certified by the CARB.

b.

c. Vehicles must be maintained and operated within the Air District's jurisdiction.

d. The amount of TFCA funds awarded may not exceed 90% of the vehicle's cost after all other grants and applicable manufacturer and local/state/federal rebates and discounts are applied.

e. **Scraping Requirements:** Grantees with a fleet that includes model year 1998 or older heavy-duty diesel vehicles must scrap one model year 1998 or older heavy-duty diesel vehicle for each new vehicle purchased or leased under this grant. Costs related to the scrapping of heavy-duty vehicles are not eligible for reimbursement with TFCA funds.

TFCA funds may not be used to pay for non-fuel system upgrades such as transmission and exhaust systems.

Grantees may request authorization of up to 50% 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.

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.

~~28. TFCA funds may not be used to pay for non-fuel system upgrades such as transmission and exhaust systems.~~

~~29. **Scraping Requirements:** Grantees with a fleet that includes model year 1998 or older heavy-duty diesel vehicles must scrap one model year 1998 or older heavy-duty diesel vehicle for each new vehicle purchased or leased under this grant. Costs related to the scrapping of heavy-duty vehicles are not eligible for reimbursement with TFCA funds.~~

~~30.~~

~~31.~~ **Alternative Fuel Bus Replacement:**

~~32-25. **On-Road Goods Movement Truck Replacements:** The project will replace Class 6, Class 7, or 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. Eligible vehicles are those that are used for goods movement as defined by CARB. The existing trucks 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. Eligibility: For purposes of transit and school bus replacement projects, a bus is any vehicle designed, used, or maintained for carrying more than 15 persons, including the driver. A vehicle designed, used, or maintained for carrying more than 10 persons, including the driver, which is used to transport persons for compensation or profit, or is used by any nonprofit organization or group, is also a bus. A vanpool vehicle is not considered a bus. Buses are subject to the same eligibility requirements and the same scrapping requirements listed in Policy #24.~~

~~33-26. **Alternative Fuel Infrastructure:**~~

~~**Eligibility:** 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 (e.g., electric vehicle, CNG, hydrogen). 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-generated funds as long as the equipment was maintained and has exceeded the duration of its useful lifeyears of effectiveness after being placed into service.~~

~~TFCA-funded infrastructure projects must be available to and accessible by the public. 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.~~

~~34-27. **Ridesharing Projects:** Eligible ridesharing projects provide carpool, vanpool or other rideshare services. Projects that provide a direct or indirect financial transit or rideshare subsidy are also eligible under this category.~~

~~35-28. **Shuttle/Feeder Bus Service:**~~

~~These projects are intended to reduce single-occupancy vehicle trips by providing short-distance connections. All of 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 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 ~~that brings passengers from a mass transit hub to within 1/3 mile of the employment location or commercial hub~~ if the passengers’ proposed travel time will be at least 15 minutes ~~less than~~ shorter and ~~will be~~ at least 33% shorter than the existing service’s travel time to the proposed destination;

- e. ~~Reserved. Project applicants that were awarded FYE 2014 or FYE 2015 or FYE 2016 TFCA Funds that propose identical routes in FYE 2015 or in FYE 2016 or in FYE 2017 may request an exemption from the requirements of Policy 28.D. provided they meet the following requirements: 1) No further TFCA project funding as of January 1, 2017; 2) The proposed service must serve the identical transit hub and commercial or employment locations as the previously funded project; and 3) Submission of a plan to achieve financial self-sufficiency from TFCA funds by January 1, 2017, or a plan to come into compliance with Policy 28.D. and all other eligibility criteria.~~
- f. ~~Shuttle/feeder bus service applicants~~ 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. ~~A Shuttle/feeder bus service~~ applicants must submit a letter of concurrence from the transit district or transit agency that provides service in the area of the proposed route, certifying that the service does not conflict with existing service.
- h. ~~Existing projects~~ Each route must meet ~~the~~ cost-effectiveness ~~requirement in Policy #2 of \$200,000 per ton of emissions reduced.~~ 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) ~~of \$250,000 per ton of emissions reduced.~~
- i. **Pilot Shuttle/Feeder Bus Service:** ~~Pilot shuttle/feeder bus service~~ projects are defined as routes that are at least 70% unique and where no other service was provided within the past three years. In addition to meeting the conditions listed in Policy #28.a.-h. for shuttle/feeder bus service, pilot shuttle/feeder bus service, project applicants must also comply with the following application criteria and agree to comply with the project implementation requirements:
  - i. Provide data and other evidence demonstrating the public’s need for the service, including a demand assessment survey and letters of support from potential users. Project applicants must agree to conduct a passenger survey for each year of operation.
  - ii. Provide written documentation of plans for financing the service in the future;
  - iii. Provide a letter from the local transit agency denying service to the project’s proposed service area, which includes the basis for denial of service to the proposed areas. The applicant must demonstrate that the project applicant has attempted to coordinate service with the local service provider and has provided the results of the demand assessment survey to the local transit agency. The applicant must provide the transit service provider’s evaluation of the need for the shuttle service to the proposed area.
  - iv. Pilot projects located in Highly Impacted Communities as defined in the Air District ~~Community Air Risk Evaluation (CARE)~~ Program and/or a Planned or Potential ~~Priority Development Area (PDA)~~ may receive a maximum of three years of TFCA 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, and
  - ~~2. By the end of the second year of operation, projects must not exceed a cost-effectiveness of \$200,000/ton, and~~
  - ~~3.2. By the end of the third year of operation, projects must not exceed a cost-effectiveness of \$175,000/ton and~~ meet all of the requirements, including cost-effectiveness limit, of Policy #28.a.-h. (existing shuttles).
- v. Projects located outside of CARE areas and PDAs may receive a maximum of two years of TFCA Funds under this 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. By the end of the first year of operation, projects shall meet a cost-effectiveness of \$~~250~~200,000/ton, and
  2. By the end of the second year of operation, projects ~~shall cost \$175,000 or less per ton (cost effectiveness rating) and~~ shall meet all of the requirements, including cost-effectiveness limit, of Policy #28.a.-h. (existing shuttles).

**36.29. Bicycle Projects:**

New bicycle facility projects or upgrades to an existing bicycle facility that are included in an adopted countywide bicycle plan, ~~or~~ 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 project that proposes to upgrade an existing bicycle facility is eligible only if that project involves converting an existing Class-2 or Class-3 facility to a Class-1 or Class-4 facility.

Eligible projects are limited to the following types of bicycle facilities for public use that result in motor vehicle emission reductions:

- a. New Class-1 bicycle paths;
- b. New Class-2 bicycle lanes;
- c. New Class-3 bicycle routes;
- d. New Class-4 cycle tracks or separated bikeways;
- e. Upgraded Class-1 or Class-4 bicycle facilities;~~Reserved.~~
- f. Bicycle racks, including bicycle racks on transit buses, trains, shuttle vehicles, and ferry vessels;
- g. Electronic bicycle lockers;
- h. Capital costs for attended bicycle storage facilities; and
- i. Purchase of two-wheeled or three-wheeled vehicles (self-propelled or electric), plus mounted equipment required for the intended service and helmets.
- j. Reserved.



All bicycle facility 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.

**37.30. Bay Area Bike Share:**

~~P~~These 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~~. ~~To be~~ eligible for TFCF funds, subject to all of the following conditions:

- a. ~~, bicycle share projects must work in unison with the existing Bay Area Bike Share project~~ Projects must ~~by~~ either increasing the fleet size ~~of within the initial participating existing~~ service areas or expanding ~~the~~ existing service areas ~~to include additional 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 maximize benefits to the end users by ~~by~~ reducing the number of separate independent operaoperators 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, or
  - 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.

~~Projects may be awarded FYE 2018 TFCF funds to pay for up to five years of operations. Projects must have a completed and approved environmental plan and a suitability study demonstrating the viability of bicycle sharing. Projects may be awarded TFCF funds to pay for up to five years of operations.~~

**38.31. 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 TFCF funds. Incident management projects on arterials are eligible to receive TFCF funds. Transit improvement projects include, but are not limited to, bus rapid transit and transit priority projects. Signal timing projects are eligible to receive TFCF funds. Each arterial segment must meet the cost-effectiveness requirement in Policy #2.

**39. Smart Growth/Traffic Calming:**

Physical improvements that support development projects and/or calm traffic, resulting in motor vehicle emission reductions, are eligible for TFCF funds, subject to the following conditions:

- a. The development project and the physical improvements must be identified in an approved area-specific plan, redevelopment plan, general plan, bicycle plan, pedestrian plan, traffic-calming plan, or other similar plan. ~~and~~
- 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.

Traffic calming projects are limited to physical improvements that reduce vehicular speed by design and improve safety conditions for pedestrians, bicyclists or transit riders in residential retail, and employment areas.

## *Appendix E: Glossary of Terms*

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

**Environmental plan** – A completed and approved plan to mitigate environmental impacts as required as 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 a result of 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.

**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 from how long the project will physically last.

## *Appendix F: Insurance Guidelines*

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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:**

Corporations and Public Entities - 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.

Single Vehicle Owners - 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:**

New Equipment Purchases - 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.

Retrofit Projects - 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:**

Construction projects – 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.

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

## Appendix G: Sample Project Information Form

A. Project Number: 187XX01

Use consecutive numbers for projects funded, with year, county code, and number, e.g., 187MAR01, 187MAR02 for Marin County. Zero (e.g., 187MAR00) is reserved for County Program Manager TFCA funds allocated for administration costs.

B. 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").

➤A. TFCA County Program Manager Funds Allocated: \$ \_\_\_\_\_

➤B. TFCA Regional Funds Awarded (if applicable): \$ \_\_\_\_\_

➤C. Total TFCA Funds Allocated (sum of C and D): \$ \_\_\_\_\_

➤D. \_\_\_\_\_ Total Project Cost: \$ \_\_\_\_\_

Indicate the TFCA dollars allocated (C, D and E) and total project cost (D). Data from Line E (Total TFCA Funds) should be used to calculate C-E.

➤E. Project Description:

Grantee will use TFCA funds to \_\_\_\_\_. Include information sufficient to evaluate the eligibility and cost-effectiveness of the project. Ex. of the information needed include but are not limited to: what 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, etc. 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.

➤F. 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 [www.baaqmd.gov/tfca4pm](http://www.baaqmd.gov/tfca4pm) for a listing of the following forms:

1. Form for Ridesharing, Shuttles, Transit Information, Rail/Bus Integration, Smart Growth, and Traffic Calming Projects. (Includes Transit Bus Signal Priority.)
1. Form for Clean Air Vehicle and Infrastructure Projects
2. Form for Bicycle Projects
3. Form for Arterial Management Projects

➤G. \_\_\_\_\_ 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 needed for TFCA County Program Managers' own administrative costs.

➤H. \_\_\_\_\_ Comments (if any):

Add any relevant clarifying information in this section.

## 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. The most recent Worksheet should be used at time of Final Report to most accurately reflect the emissions reduced.

The Air District provides Microsoft Excel worksheets by e-mail. Worksheets must be completed for all project types with the exception of TFCA County Program Manager administrative costs.

<b>Project Type</b>	<b>Worksheet Name</b>
Ridesharing, Shuttles, Bicycle, Bike Share , Smart Growth, and Traffic Calming Projects	Trip Reduction FYE <del>187</del>
Arterial Management: Signal Timing	Arterial Management FYE <del>187</del>
Transit Bus Signal Priority (also for Transit Rail Vehicles)	Trip Reduction FYE <del>187</del>
Alternative-Fuel Light-Duty and Light Heavy-Duty Vehicles or Infrastructure	LD & LHD Vehicle FYE <del>187</del>
Alternative-Fuel Low-Mileage Utility Trucks – Idling Service	Heavy-Duty Vehicle FYE <del>187</del>
Alternative-Fuel Heavy-Duty Vehicles, Buses, or Infrastructure	Heavy-Duty Vehicle FYE <del>187</del>

**Make entries in the yellow-shaded areas only in the worksheets.** Begin each new filename with the application number (e.g., ~~187~~MAR04) 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 cost-effectiveness 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 potential for 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 is 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~~number of survey respondents who report that they would have driven alone if not for the service provided. For calculating the length of trip, ~~it is appropriate to use 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 # ~~28~~). 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.).

#### 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.

#### Arterial Management Projects

**Please note that each segment must meet the cost-effectiveness requirement (Policy #~~23~~4).** If there are multiple segments being considered for funding, one worksheet should be submitted with all segments listed, and a separate worksheet should be submitted showing the cost-effectiveness for each segment.

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

#### Smart Growth, 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.

#### 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 \$~~23~~,000 per Level 2 (6.6KW) charging spot, and 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.

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 effective life.

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) Carl Moyer Program Guidelines document is the source for the formulas and factors used in the Heavy-Duty Vehicle worksheet. The full documentation is available at <http://www.arb.ca.gov/msprog/moyer/guidelines/current.htm>. 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. At this time, vehicles that are funded by the CARB (e.g., Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project [HVIP]), Carl Moyer, or other Air District grant programs are not eligible for additional funding from TFCA.

**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 (i.e., 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., **187** for FYE 20187).

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

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

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

Example: **187MAR04** = fiscal year ending **20187**, **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
<b>0</b>	Administrative costs	<b>6c</b>	Shuttle services – NG powered
<b>1a</b>	NG buses (transit or shuttle buses)	<b>6d</b>	Shuttle services – EV powered
<b>1b</b>	EV buses	<b>6e</b>	Shuttle services – Fuel cell powered
<b>1c</b>	Hybrid buses	<b>6f</b>	Shuttle services – Hybrid vehicle

Code	Project Type	Code	Project Type
1d	Fuel cell buses	6g	Shuttle services – Other fuel type
1e	Buses – Alternative fuel	6h	Shuttle services w/TFCA purchased retrofit
2a	NG school buses	6i	Shuttle services – fleet uses various fuel types
2b	EV school buses	7a	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
3a	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)	7j	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	9c	Smart growth – other types
5c	Incentive programs (for any alternative mode)	10a	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.
- Grantee Org.:** 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).
- Completion Date &**
- Final Report to CMA:** Date the project was completed and the 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 do not use the Air District's guidelines and default values to determine cost-effectiveness, you must document and explain your inputs and assumptions after receiving written approval from the Air District.

### **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 On-Road Heavy-Duty Fleet Rules~~

**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-Duty Vehicles	250,000	3 years recommended, 4 years max
23	Reserved	Reserved	Reserved
24	Alternative Fuel Heavy-Duty Vehicles and Buses	250,000	3 years recommended, 4 years max
25	<del>On-Road Goods Movement Truck Replacements</del> <del>Alternative Fuel Bus Replacement</del>	<del>250,000</del> <u>90,000</u>	3 years recommended, 4 years max
26	Alternative Fuel Infrastructure	250,000	3 years recommended, 4 years max
27	Ridesharing Projects	150,000	2 years max
28 <del>a.A-h.H</del>	Shuttle/Feeder Bus Service – Existing	200,000; 250,000 for services in CARE Areas or PDAs	2 years max
28 <del>i.t</del>	Shuttle/Feeder Bus Service - Pilot	Year 1 - <del>250,000</del> Year 2 - <del>see Policy #28.a-h.175,000</del>	2 years max
28 <del>i.t</del>	Shuttle/Feeder Bus Service – Pilot in CARE Areas or PDAs	Years <del>1 &amp; 2</del> - 500,000 <del>Year 2 – 200,000</del> Year 3 - <del>see Policy #28.a-h.175,000</del>	2 years max
29	Bicycle Projects	250,000	From 3 to 10 years
30	Bay Area Bike Share	500,000	5 years max
31	Arterial Management	175,000	2 or 4 years
32	Smart Growth/Traffic Calming	175,000	10 years max

**Emission Reduction Inputs**

Project Type/Worksheet Name	Input Data Needed	Default Assumptions
<p><b>Ridesharing / Trip Reduction</b>                      Project Type = 5a-h, 8b, 9a-c, 11a, or 11b                      Worksheet = Trip Reduction FYE 187                      Note: For ridesharing the default maximum number of vehicle trips reduced per day is 1% of target population.</p>	<p style="text-align: center;"><b><u>Ridesharing</u></b></p> <ul style="list-style-type: none"> <li>• # Years Effectiveness</li> <li>• # Trips/Day (1-way) eliminated [% of target population (# employees)]</li> <li>• Days/Yr</li> <li>• Trip Length (1-way)</li> <li>• # New Trips/Day (1-way) to access transit</li> <li>• Days/Yr</li> <li>• Trip Length (1-way)</li> </ul>	<ul style="list-style-type: none"> <li>• Enter in Cost Effectiveness Inputs, up to 2 years</li> <li>• Enter in Step 1-Column A, 1% of target population</li> <li>• Enter in Step 1-Column B, 240 days (max.)</li> <li>• Step 1-Column C, Default = 16 miles (1-way commute distance from MTC’s Commute Profile)</li> <li>• Step 2-Column A, Default = 50% of # Trips/Day Eliminated (Step 1-Column A)</li> <li>• Enter in Step 2-Column B, same # as Step 1-Column B</li> <li>• Enter in Step 2-Column C, Default = 3 miles</li> </ul>
	<p style="text-align: center;"><b><u>School-Based Ridesharing</u></b></p> <ul style="list-style-type: none"> <li>• # Years Effectiveness</li> <li>• # Trips/Day (1-way) eliminated [% of target population (total # students)]</li> <li>• Days/Yr</li> <li>• Trip Length (1-way)</li> </ul>	<ul style="list-style-type: none"> <li>• Enter in Cost Effectiveness Inputs, up to 2 yrs</li> <li>• Step 1-Column A, No Default</li> <li>• Enter in Step 1-Column B, 180 days (max.)</li> <li>• Step 1-Column C, 1-3 miles</li> </ul>
	<p style="text-align: center;"><b><u>Transit Incentive Campaigns</u></b></p> <ul style="list-style-type: none"> <li>• # Years Effectiveness</li> <li>• # Trips/Day (1-way) eliminated [% of target population]. Use survey data if available.</li> <li>• Days/Yr</li> <li>• Trip Length (1-way), based on routes accessed</li> <li>• # New Trips/Day (1-way) to access transit</li> <li>• Days/Yr (new trips)</li> <li>• Trip Length (1-way) for new trips</li> </ul>	<ul style="list-style-type: none"> <li>• Enter in Cost Effectiveness Inputs, up to 2 yrs</li> <li>• Step 1-Column A, No default</li> <li>• 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).</li> <li>• Step 1-Column C, No Default</li> <li>• Step 2-Column A, 50% of # Trips/Day Eliminated (Step 1-Column A)</li> <li>• Enter in Step 2-Column B - same as # days used in Step 1</li> <li>• Step 2-Column C, Default = 3 miles</li> </ul>
	<p style="text-align: center;"><b><u>Guaranteed Ride Home Programs</u></b></p>	

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	<ul style="list-style-type: none"> <li>• # Years Effectiveness</li> <li>• # Trips/Day (1-way) eliminated</li> <li>• Days/Yr</li> <li>• Trip Length (1-way)</li> </ul>	<ul style="list-style-type: none"> <li>• Enter in Cost Effectiveness Inputs, up to 2 years</li> <li>• Enter in Step 1-Column A, 0.2% of target population.</li> <li>• Enter in Step 1-Column B, 240 days (Max.)</li> <li>• Step 1-Column C, Default = 16 miles</li> </ul>
	<p style="text-align: center;"><b><u>Transit Vehicle Signal Prioritization</u></b></p> <ul style="list-style-type: none"> <li>• # Years Effectiveness</li> <li>• # Trips/Day (1-way) eliminated</li> <li>• Days/Yr</li> <li>• Trip Length (1-way)</li> </ul>	<ul style="list-style-type: none"> <li>• Enter in Cost Effectiveness Inputs, 2 yrs</li> <li>• Step 1-Column A, No Default</li> <li>• Enter in Step 1-Column B, 240 days (max)</li> <li>• Step 1-Column C, No Default</li> <li>• Step 2-Column A, 50% of # Trips/Day Eliminated (Step 1-Column A)</li> <li>• Step 2-Column B, same as Step 1-Column B</li> <li>• Enter in Step 2-Column C, 3 miles</li> </ul>

**~~Emission Reduction Inputs~~**

Project Type/Worksheet Name	Input Data Needed	Default Assumptions
<p><b>Bicycle Projects</b> Project Type = 7a-j</p> <p>Worksheet = Trip Reduction FYE 187</p> <p>Methodology to estimate number of trips reduced for bike paths, lanes, &amp; routes based on:</p> <ul style="list-style-type: none"> <li>- the type of facility (Class 1, 2, or 3)</li> <li>- the length of the project segment</li> <li>- the traffic volume (ADT) on the facility.</li> </ul> <p>For Class 1 projects, use the ADT on the most appropriate parallel road.</p>	<p style="text-align: center;"><b><u>Bicycle Projects (Paths, Lanes, Routes)</u></b></p> <ul style="list-style-type: none"> <li>• # Years Effectiveness                             <ul style="list-style-type: none"> <li>Class 1 bike path (or bike bridge)</li> <li>Class 2 bike lane</li> <li>Class 3 bike route</li> <li>Class 4 cycle tracks or separated bikeways</li> </ul> </li> <li>• # Trips/Day (1-way) eliminated (depends on length of project segment and ADT on project segment)                             <ul style="list-style-type: none"> <li>Class 1 &amp; Class 2 &amp; Class 4</li> <li>ADT ≤ 12,000 vehicles per day</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Enter in Cost Effectiveness Inputs:                             <ul style="list-style-type: none"> <li>Not to exceed 10 years for Class 1 projects (trails/paths)</li> <li>Not to exceed 7 years for Class 2, Class 3 and Class 4 projects</li> </ul> </li> <li>• Enter in Step 1-Column A:                             <ul style="list-style-type: none"> <li>Length ≤ 1 mile = 0.4% ADT</li> <li>Length &gt;1 and ≤ 2 miles = 0.6% ADT</li> </ul> </li> </ul>

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<p>For gap closure projects (where project will close a gap between two existing segments of bikeway), use the length for the total facility.</p> <p>Note: the maximum number of vehicle trips reduced per day is 240. The Air District generally assumes that no bike project will reduce more than 240 vehicle trips per day.</p> <p>The Air District normally uses an average trip length of 3 miles (one-way) for bicycle projects.</p>	<p>Class 1 &amp; Class 2 &amp; Class 4 ADT &gt; 12,000 and ≤ 24,000</p> <p>Class 1 &amp; Class 2 &amp; Class 4 ADT &gt; 24,000 and ≤ 30,000 Maximum is 30,000.</p> <p>Class 3 bike route or bicycle boulevard</p> <p><u>Upgraded Class 1 &amp; Upgraded Class 4</u></p> <ul style="list-style-type: none"> <li>• Days/Yr</li> <li>• Trip Length (1-way)</li> </ul>	<p>Length &gt;2 miles = 0.8% ADT</p> <p>Length ≤ 1 mile = 0.3% ADT</p> <p>Length &gt; 1 and ≤ 2 miles = 0.45% ADT</p> <p>Length &gt; 2 miles = 0.6% ADT</p> <p>Length ≤ 1 mile = 0.25% ADT</p> <p>Length &gt; 1 and ≤ 2 miles = 0.35% ADT</p> <p>Length &gt; 2 miles = 0.45% ADT</p> <p>Route ≤ 1 mile = 0.1% ADT</p> <p>Route &gt; 1 and ≤ 2 miles = 0.15% ADT</p> <p>Route &gt; 2 miles = 0.25% ADT</p> <p><u>Use 5% of the appropriate formula above</u></p> <ul style="list-style-type: none"> <li>• Enter in Step 1-Column B, 240 days</li> <li>• Enter in Step 1-Column C, 3 miles. (Not same as segment length.)</li> </ul>
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	<p><b><u>Bicycle Lockers &amp; Racks</u></b></p> <ul style="list-style-type: none"> <li>• # Years Effectiveness</li> <li>• # Trips/Day (1-way) eliminated</li> <li>• Days/Yr</li> <li>• Trip Length (1-way)</li> </ul>	<ul style="list-style-type: none"> <li>• Enter in Cost Effectiveness Inputs, 3 yrs</li> <li>• 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</li> <li>• Enter in Step 1-Column B, 240 days</li> <li>• Enter in Step 1-Column C, 3 miles</li> </ul>
	<p><b><u>Bay Area Bike Share</u></b></p> <ul style="list-style-type: none"> <li>• # Years Effectiveness</li> </ul>	<ul style="list-style-type: none"> <li>• Enter in Cost Effectiveness Inputs, max. 5 yrs</li> </ul>

	<ul style="list-style-type: none"> <li># Trips/Day (1-way) eliminated</li> </ul> <p style="text-align: center;"><b>Weekdays</b></p> <ul style="list-style-type: none"> <li>Days/Yr</li> <li>Trip Length (1-way)</li> </ul> <p style="text-align: center;"><b>Weekends</b></p> <ul style="list-style-type: none"> <li>Days/Yr</li> <li>Trip Length (1-way)</li> </ul>	<ul style="list-style-type: none"> <li>Enter in Step 1-Column A: Number of bikes <del>*X</del> 1.48 trips per day <del>*X</del> 12% (actual vehicle trips replaced based on Shaheen research dated June 2015)</li> <li>Enter in Step 1-Column B, 260 days</li> <li>Enter in Step 1-Column C, 16 miles</li> <li>Enter in Step 1-Column B, 105 days</li> <li>Enter in Step 1-Column C, 3 miles</li> </ul>
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**Emission Reduction Inputs**

Project Type/Worksheet Name	Input Data Needed	Default Assumptions
<p><b>Shuttles / Rail-Bus Integration / Transit Info</b> Project Type =6a-i, 10a, or 10b</p> <p>Worksheet = Trip Reduction FYE 187</p> <p><i>Step 2 calculates emissions from new trips generated.</i></p> <p><i>When possible, emissions from shuttle vehicles should be based on the vehicle engine Executive Order. County Program Manager should consult with Air District staff for guidance.</i></p>	<p><b><u>Shuttle/Feeder Bus, Rail-Bus Integration, and Transit Information Systems</u></b></p> <ul style="list-style-type: none"> <li>• # Years Effectiveness</li> <li>• # Trips/Day (1-way) eliminated trips. Trips only from riders who previously would have driven.</li> <li>• Days/Yr eliminated trips</li> <li>• 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.</li> <li>• # Trips/Day (1-way) new trips to access transit</li> <li>• Days/Yr new trips</li> <li>• Trip Length (1-way) new trips. Average trip length of shuttle passengers that drive from home to the BART/Caltrain station.</li> <li>• # Vehicles, Model Year: Number of vehicles with same model year</li> </ul>	<ul style="list-style-type: none"> <li>• Cost Effectiveness Inputs, up to 2 years</li> <li>• Step 1-Column A, For on-going service, use survey results  For new service, use 50% of daily seating capacity of vehicle * 67% (% single-occupancy vehicles (SOV) from MTC Commuter Profile)</li> <li>• 1-Column B, Enter number of operating days. Default =240 days/yr.</li> <li>• Enter in Step 1-Column C, a survey-based distance, or, if no survey, 16 miles for shuttles and 35 miles for vanpools</li> <li>• Step 2-Column A, Use survey data or, if none, a default is 50% of # Trips/Day Eliminated (Step 1-Column A)</li> <li>• Enter in Step 2-Column B, same # as in Step 1-Column B.</li> <li>• Enter in Step 2-Column C, a survey-based distance, or, if no survey, default is 3 miles for home-to-rail trips.</li> <li>• Step 3A - Column A, no default.</li> </ul>

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<p><i>For vans and shuttle vehicles 14,000 lbs. and lighter, use Step 3A.</i></p>           <p><i>For buses, use Step 3B.</i></p> <p><i>If a vehicle does not match the factors provided, County Program Manager should consult with Air District staff.</i></p>	<ul style="list-style-type: none"> <li>• Emission Std.: Emission Standard from list provided.</li> <li>• Vehicle GVW: Weight Class from list provided.</li> <li>• 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.</li> <li>• CO<sub>2</sub> Factor: enter factor from CO<sub>2</sub> Table for Light- and Light Heavy-Duty Shuttles, on Emission Factors tab.</li> <li>• 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.</li> <li>• 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.</li>   <li>• 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.</li> </ul>	<ul style="list-style-type: none"> <li>• 3A - Column B, no default.</li> <li>• 3A Column C, no default.</li> <li>• 3A Column D through G, no default</li> <li>• 3A Column H, no default.</li> <li>• 3A Column I, no default.</li> <li>• Step 3B: Columns D through H, no default. Note that Step 3B uses Other PM<sub>10</sub>, not Total PM<sub>10</sub>.</li> <li>• 3B Column I, no default.</li> </ul>
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**Emission Reduction Inputs**

Project Type/Worksheet Name	Input Data Needed	Default Assumptions
	<u>Arterial Management</u>	

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Project Type/Worksheet Name	Input Data Needed	Default Assumptions
<p><b>Arterial Management</b> Project Type = 8a</p> <p>Worksheet = Arterial Management FYE 1<del>8</del>7</p>	<ul style="list-style-type: none"> <li>• # Years Effectiveness</li> <li>• Name of Arterial</li> <li>• Segment Length (miles)</li> <li>• Days/Yr.</li> <li>• Time Period</li> <li>• Traffic Volume</li> <li>• Traffic Speed without the Project</li> <li>• Travel Speed with Project</li> </ul>	<ul style="list-style-type: none"> <li>• Enter in Cost Effectiveness Inputs: 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.</li> <li>• Column A: Name of the arterial and the direction of travel.</li> <li>• Enter under Column B the length of arterial over which speeds will be increased.</li> <li>• Enter under Column C the number of days per year over which the project would affect traffic. Default is 240 days.</li> <li>• Enter under Column D the time period over which the traffic volumes and speed will change (e.g., 4-7 PM). Include all the hours in a period that will benefit, not just the peak hour.</li> <li>• 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.</li> <li>• Enter under Column F the average traffic speed along the length of the arterial before implementation of the project.</li> <li>• 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></li> </ul>
<p>[Smart Growth]</p>	<p><b><u>Smart Growth / Traffic Calming</u></b></p>	<ul style="list-style-type: none"> <li>• Cost Effectiveness Inputs, 10 years max</li> <li>• No other default assumptions for “smart growth” or traffic calming projects are available. Provide detailed explanations of any assumptions and calculations in the Notes and Assumptions tab.</li> </ul>

**Emission Reduction Inputs**

**Alt-fuel Heavy-Duty Vehicles and Infrastructure**

Project Types = 1a, 1b, 1c, 1d, 1e, 2a, 2b, 2c, 2d, 2e, 3a, 3b, 3c, 3d, 3e, 3f, 12a, 12b, 12c

Worksheet = Heavy Duty Vehicle FYE 1~~8~~7

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Input Data Needed	Default Assumptions
<ul style="list-style-type: none"> <li>○ Cost Effectiveness Inputs, # Years Effectiveness. Use separate workbook and Project # for each set of vehicles with different # Years Effectiveness or with different fuel types.</li> </ul>	<ul style="list-style-type: none"> <li>● 3 years is recommended - Not to exceed 4 years.</li> </ul>
<ul style="list-style-type: none"> <li>○ Column B, Unit #: A unique identifier. List each vehicle on a separate row.</li> </ul>	<ul style="list-style-type: none"> <li>○ Column B: No default</li> </ul>
<ul style="list-style-type: none"> <li>● 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.</li> </ul>	<ul style="list-style-type: none"> <li>● Columns C through E: For FYE 201<del>8</del>7 alt-fuel heavy-duty vehicle projects, including urban buses, the baseline default is the Model Year 2010 emission standards.</li> </ul>
<ul style="list-style-type: none"> <li>● Column F, Annual Fuel Use: Base on average fuel use over 2 years, and document with 2 years of records.</li> </ul>	<ul style="list-style-type: none"> <li>● Column F: No default.</li> </ul>
<ul style="list-style-type: none"> <li>● Column G, Fuel Consumption Factor: Moyer Table D-24</li> </ul>	<ul style="list-style-type: none"> <li>● Column G: Most on-road engines are below 750 horsepower, thus the default value is 18.5.</li> </ul>
<ul style="list-style-type: none"> <li>● Column H, Conversion Factor (g/mi to g/bhp-hr): Input a value only if Baseline Emission Rates (Columns C – E) are in g/mi and Fuel Basis is being used. Notice: enter data in this column or Column J, not both. Use Moyer Table D-28.</li> </ul>	<ul style="list-style-type: none"> <li>● Column H: No default.</li> </ul>
<ul style="list-style-type: none"> <li>● Column I, Annual VMT: Base on average VMT over 2 years, and document with 2 years of mileage records.</li> </ul>	<ul style="list-style-type: none"> <li>● Column I: No default.</li> </ul>
<ul style="list-style-type: none"> <li>● Column J, Conversion Factor (g/bhp-hr to g/mi): Input a value only if Baseline Emission Rates (Columns C – E) are in g/bhp-hr. Notice: enter data in this column <b>or</b> Column H, not both. Use Moyer Table D-28.</li> </ul>	<ul style="list-style-type: none"> <li>● Column J: No default.</li> </ul>
<ul style="list-style-type: none"> <li>● Column K, Percent operation in Air District: Only the operation within the Bay Area Air Quality Management District can be counted. Boundaries available from the Air District.</li> </ul>	<ul style="list-style-type: none"> <li>● Column K: No default.</li> </ul>
<ul style="list-style-type: none"> <li>● Columns L through N, New Emission Rate: NO<sub>x</sub>, ROG, and PM: Use Executive Order values. Note: FEL engines are not eligible for TFCA funding.</li> </ul> <p>CARB certifies engines and provides the engine manufacturers with an Executive Order (EO) for each certified engine family. An example of an EO is shown at the end of this attachment. The EO includes general information about the certified engine such as engine family, displacement, horsepower rating(s), intended service class, and emission control systems. It also shows the applicable certification emission standards as well as the average emission levels measured during the actual certification test procedure. For the purpose of the TFCA Program, the certification emission <b>standards</b> are used to calculate emission reductions. The certification emission standards are shown in the row titled “(DIRECT) STD” under the respective “FTP” column headings for each pollutant. For instance, the Cummins 8.3 liter natural gas engine illustrated in the sample was certified to a combined oxides of nitrogen plus non-methane hydrocarbon (NO<sub>x</sub>+NMHC) emission standard of 1.8 g/bhp-hr, a carbon monoxide (CO)</p>	<ul style="list-style-type: none"> <li>● Columns L through N: For FYE 201<del>8</del>7 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.</li> </ul>

Input Data Needed	Default Assumptions
<p>emission standard of 15.5 g/bhp-hr, and a particulate matter (PM) emission standard of 0.03 g/bhp-hr.</p> <p>In the case where an EO shows emission values in the rows labeled “AVERAGE STD” and/or “FEL”, the engine is certified for participation in an averaging, banking, and trading (AB&amp;T) program. AB&amp;T engines (i.e., all FEL-certified engines) <b>are not eligible</b> to participate in the TFCA Program for new vehicle purchase projects since emission benefits from an engine certified to an FEL level are not surplus emissions.</p>	
<ul style="list-style-type: none"> <li>Column O, Replacement Vehicle Cost: Must be supported by a quote for the new alt-fuel vehicle that exceeds standards.</li> </ul>	<ul style="list-style-type: none"> <li>Column O: No Default.</li> </ul>
<ul style="list-style-type: none"> <li>Column P, Must be supported by a quote for a new equivalent model vehicle that meets standards (for FYE 20187, the Model Year 2010 Standards).</li> </ul>	<ul style="list-style-type: none"> <li>Column P: No Default.</li> </ul>
<ul style="list-style-type: none"> <li>Column Q, Fuel Savings.</li> </ul>	<ul style="list-style-type: none"> <li>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.</li> </ul>
<ul style="list-style-type: none"> <li>Column R, Fuel Consumption Factor: Use Moyer Table D-24.</li> </ul>	<ul style="list-style-type: none"> <li>Column R: Most on-road engines are below 750 horsepower.</li> </ul>
<ul style="list-style-type: none"> <li>Column S, Conversion Factor (g/mi to g/bhp-hr): Enter a value only if New Emission Rates (Columns L – N) are in g/mi and Fuel Basis is being used. Notice: enter data in this column <b>or</b> Column T, not both. Use Moyer Table D-28.</li> </ul>	<ul style="list-style-type: none"> <li>Column S: No default.</li> </ul>
<ul style="list-style-type: none"> <li>Column T, Conversion Factor (g/bhp-hr to g/mi): Enter a value <b>only if</b> New Baseline Emission Rates (Columns L – N) are in g/bhp-hr. Notice: enter data in this column or Column S, not both. Use Moyer Table D-28.</li> </ul>	<ul style="list-style-type: none"> <li>Column T: No default.</li> </ul>
<ul style="list-style-type: none"> <li>Column Y, # Years Effectiveness: Same as in Cost Effectiveness Inputs.</li> </ul>	<ul style="list-style-type: none"> <li>Column Y: 3 years is recommended - 4 yrs max.</li> </ul>
<ul style="list-style-type: none"> <li>Column Z, Incremental Cost: The cost of the proposed vehicle minus the baseline vehicle.</li> </ul>	<ul style="list-style-type: none"> <li>Column Z: Automatically calculated.</li> </ul>
<ul style="list-style-type: none"> <li>Columns AB – AG, Emission Reductions.</li> </ul> <p>All reductions must be surplus to any regulatory, contractual, or other legally binding requirement.</p> <p>Note that if ROG values are not available for both the baseline and the proposed engine, ensure value is zero (0) for ROG, as no ROG emission reductions can be claimed.</p>	<ul style="list-style-type: none"> <li>Columns AB – AG. Calculated automatically. Enter zero (0) if a reduction cannot be claimed.</li> </ul>
<ul style="list-style-type: none"> <li>Column AM, TFCA Funding Amount: Amount of total TFCA funding. The column total must equal Total TFCA Cost from Cost-Effectiveness Inputs at top of worksheet.</li> </ul>	<ul style="list-style-type: none"> <li>Column AM: Cannot exceed Incremental Cost.</li> </ul>


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Input Data Needed	Default Assumptions
<ul style="list-style-type: none"> <li>Column AP, Actual Weighted CE w/o CRF--Miles Basis (\$/ton). Cost-effectiveness based on emissions including weighted PM. <b>Must meet Policy Requirements.</b></li> </ul>	<ul style="list-style-type: none"> <li>Column AP: Calculated automatically.</li> </ul>
<ul style="list-style-type: none"> <li>Column AQ, Actual Weighted Contract CE w/o CRF--Fuel Basis (\$/ton). Cost-effectiveness based on emissions including weighted PM. <b>Must meet Policy Requirements.</b></li> </ul> <p>Emissions and cost-effectiveness calculations <b>can only be based on fuel usage for the following vehicles:</b></p> <ul style="list-style-type: none"> <li>Utility vehicles in idling service</li> <li>Street sweepers</li> <li>Solid waste collection vehicles.</li> </ul> <p>All other vehicles must use mileage basis. If using fuel-based calculations, usage must be based on two years of historical fuel usage documentation (e.g., fuel logs or purchase receipts).</p>	<ul style="list-style-type: none"> <li>Column AQ: Calculated automatically.</li> </ul>
<ul style="list-style-type: none"> <li>Column AS, Baseline CO<sub>2</sub> 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 Diesel is 1527 g/mi).</li> </ul>	<ul style="list-style-type: none"> <li>Column AS: No default.</li> </ul>
<ul style="list-style-type: none"> <li>Column AT, Proposed Engine CO<sub>2</sub> 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).</li> </ul>	<ul style="list-style-type: none"> <li>Column AT: No default.</li> </ul>
<ul style="list-style-type: none"> <li>Column AV, Baseline CO<sub>2</sub> Factor 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).</li> </ul>	<ul style="list-style-type: none"> <li>Column AV: 10079 g/mi.</li> </ul>
<ul style="list-style-type: none"> <li>Column AW, Proposed Engine CO<sub>2</sub> Factor Based on Fuel Use: Enter value from CO<sub>2</sub> Emission Factors Table for your fuel type (e.g., CNG is 7244 g/mi).</li> </ul>	<ul style="list-style-type: none"> <li>Column AW: No default.</li> </ul>

Project Type/Worksheet Name	Input Data Needed	Default Assumptions
<p><b>Alt-fuel Vehicles and Infrastructure:</b></p> <p><b>Light-Duty and Light Heavy-Duty</b></p> <p>Project Types = 4a, 4b, 4c, 4d, 4e, 12a, 12b, 12c</p> <p>Worksheet = LD &amp; LHD Vehicle FYE 1<del>8</del>7</p>	<ul style="list-style-type: none"> <li># Years Effectiveness</li> </ul>	<ul style="list-style-type: none"> <li>3 years is recommended - 4 years max.</li> </ul>
	<ul style="list-style-type: none"> <li>Unit # / ID</li> </ul>	<ul style="list-style-type: none"> <li>List each vehicle separately.</li> </ul>
	<ul style="list-style-type: none"> <li>Incremental Cost</li> </ul>	<ul style="list-style-type: none"> <li>For new vehicles, must be based on two quotes—one for the new alt-fuel vehicle, and one for a new conventionally-fueled equivalent model that meets current emission standards.</li> </ul>
	<ul style="list-style-type: none"> <li>Current Standard and New Vehicle Standard</li> <li>Cost-Effectiveness</li> </ul>	<ul style="list-style-type: none"> <li><del>1.</del> Enter in Columns E and F the standard that a vehicle is certified to, as shown on the CARB Executive Order.</li> <li>Column U, automatically calculated. Each vehicle must meet the Policy requirements for cost-effectiveness.</li> </ul>



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

 <b>AIR RESOURCES BOARD</b>	<b>CUMMINS INC.</b>	<b>EXECUTIVE ORDER A-021-0571-1</b> 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 <sup>1</sup>	STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS <sup>2</sup>	ECS & SPECIAL FEATURES <sup>3</sup>	DIAGNOSTIC <sup>6</sup>
2012	CCEXH0729XAD	11.9	Diesel	Diesel	UB	DDI, TC, CAC, ECM, EGR, OC, SCR-U, PTOX	EMD
<b>PRIMARY ENGINE'S IDLE EMISSIONS CONTROL</b>		<b>ADDITIONAL IDLE EMISSIONS CONTROL<sup>5</sup></b>					
Exempt		N/A					
<b>ENGINE (L)</b>	<b>ENGINE MODELS / CODES (rated power, in hp)</b>						
11.9	ISX11.9 385 / 3865;FR20350 (379), ISX12 385 / 3865;FR20350 (379)						
<small>                     * =not applicable; GVWR=gross vehicle weight rating; 13 CCR xyz=Title 13, California Code of Regulations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulations, Section 86.abc;                      L=liter; hp=horsepower, kw=kilowatt, hr=hour;                      1 CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel;                      2 L/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDO=heavy duty Otto;                      3 ECS=emission control system; TWC/OC=three-way/oxidizing catalyst; NAC=NOx adsorption catalyst; SCR-U / SCR-N=selective catalytic reduction - urea / - ammonia; WU (prefix) =warm-up catalyst; DPF=diesel particulate filter; PTOX=periodic trap oxidizer; HO2S/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=throttle body fuel injection; SP/MP=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor; IDI/DDI=indirect/direct diesel injection; TC/SC=turbo/super charger; CAC=charge air cooler; EGR / EGR-C=exhaust gas recirculation / cooled EGR; PAIR/AIR=pulse/secondary air injection; SPL=smoke puff limiter; ECM/PCM=engine/powertrain control module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series; AMOX=ammonia oxidation catalyst                      5 ESS=engine shutdown system (per 13 CCR 1956.8(a)(6)(A)(1); 30g=30 g/hr NOx (per 13 CCR 1956.8(a)(6)(C); APS =internal combustion auxiliary power system; ALT=alternative method (per 13 CCR 1956.8(a)(6)(D); Exempt=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);                      6 EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD=on-board diagnostic system (13 CCR 1971.1);                 </small>							

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 g/bhp-hr	NMHC		NOx		NMHC+NOx		CO		PM		HCHO	
	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		*		19.4		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.: 2007-02-28)

**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.

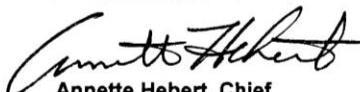
**BE IT FURTHER RESOLVED:** For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels), 13 CCR 1971 (engine manufacturer diagnostic) and 13 CCR 2035 et seq. (emission control warranty).

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 17 day of April 2012.

  
**Annette Hebert, Chief**  
**Mobile Source Operations Division**