



Transportation Air Quality Conformity Analysis for the Transportation Improvement Program Amendment 11-28

Final (Revised)

Metropolitan Transportation Commission

September 25, 2012

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1 Summary of Conformity Analysis

The federally required Transportation Improvement Program (TIP) is a comprehensive listing of all Bay Area transportation projects that receive federal funds or are subject to a federally required action, or are considered regionally significant for air quality conformity purposes. The 2011 TIP was adopted by the Commission on October 27, 2010 (MTC Resolution No. 3975), and approved by the Federal Transit Administration (FTA) and the Federal Highway Administration (FHWA) on December 14, 2010.

MTC is required to prepare and adopt an updated TIP every two years. In accordance with federal programming requirements, MTC has prepared the TIP Amendment 11-28, which is the subject of this conformity analysis.

The TIP Amendment 11-28 covers four years of programming, starting with fiscal years 2010-11 through 2013-14. The TIP Amendment 11-28 predominantly includes the 2011 TIP projects. It does add in new exempt and non-exempt phases (right-of-way and construction) for projects derived from the financially constrained Transportation 2035 Plan so long as the total project cost (including those project costs that are programmed outside the TIP period), scope and the analysis year for the project (as modeled in the latest conformity analysis) are consistent with the Transportation 2035 Plan. Appendix A lists out projects amended into the TIP Amendment 11-28. Note that all projects to be included in the TIP Amendment 11-28 are consistent with the Transportation 2035 Plan and meet all the financial constraint requirements.

Since the TIP Amendment 11-28 does not include any new regionally significant projects beyond those currently included in the Transportation 2035 Plan, and these projects have been modeled in the appropriate horizon year using the latest planning assumptions, the conformity rule allows for the reliance on the previous regional emissions analysis for conformity determinations on TIPs that are consistent with the RTP (40 CFR §93.122(g)). Thus, MTC staff proposes to use the latest conformity analysis for the Transportation 2035 Plan and 2011 Transportation Improvement Program as the basis for the conformity determination for the TIP Amendment 11-28. The latest conformity analysis is included in the report "*Final Transportation Air Quality Conformity Analysis for the Transportation 2035 Plan and 2011 Transportation Improvement Program*," which was approved by FHWA/FTA, in consultation with US EPA, on December 14, 2010. Note that this latest conformity determination includes regional conformity to the PM_{2.5} requirements, which took effect on December 14, 2009.

For purposes of the conformity analysis, MTC states for the record:

1. **Latest Planning Assumptions, Emissions Model and Budget Comparison:** No new regional emissions analysis is necessary for the conformity determination for the TIP Amendment 11-28. This conformity determination is based on the regional emissions analysis performed for the Transportation 2035 Plan and 2011 TIP. The latest planning assumptions, emissions model and budget comparisons are as reflected in the regional emissions analysis. Please refer to the above referenced conformity report for details on this analysis.

2. **TCM Implementation:** The Transportation Control Measures (TCMs) A through E in the approved 2001 Ozone Attainment Plan are fully implemented. All information on the timely implementation of the TCMs in the above referenced conformity report is current.
3. **Reliance on the Previous Regional Emissions Analysis:** Since the conformity determination for the TIP Amendment 11-28 relies on the previous regional emissions analysis, MTC is required to meet the requirements of 40 CFR §93.122(g), as follows:

(g) Reliance on previous regional emissions analysis.

(1) Conformity determinations for a new transportation plan and/or TIP may be demonstrated to satisfy the requirements of §§93.118 (“Motor vehicle emissions budget”) or 93.119 (“Interim emissions in areas without motor vehicle emissions budgets”) without new regional emissions analysis if the previous regional emissions analysis also applies to the new plan and/or TIP. This requires a demonstration that:

(i) The new plan and/or TIP contain all projects which must be started in the plan and TIP's timeframes in order to achieve the highway and transit system envisioned by the transportation plan;

(ii) All plan and TIP projects which are regionally significant are included in the transportation plan with design concept and scope adequate to determine their contribution to the transportation plan's and/or TIP's regional emissions at the time of the previous conformity determination;

(iii) The design concept and scope of each regionally significant project in the new plan and/or TIP are not significantly different from that described in the previous transportation plan; and

(iv) The previous regional emissions analysis is consistent with the requirements of §§93.118 (including that conformity to all currently applicable budgets is demonstrated) and/or 93.119, as applicable.

(2) A project which is not from a conforming transportation plan and a conforming TIP may be demonstrated to satisfy the requirements of §93.118 or §93.119 without additional regional emissions analysis if allocating funds to the project will not delay the implementation of projects in the transportation plan or TIP which are necessary to achieve the highway and transit system envisioned by the transportation plan, the previous regional emissions analysis is still consistent with the requirements of §93.118 (including that conformity to all currently applicable budgets is demonstrated) and/or §93.119, as applicable, and if the project is either:

(i) Not regionally significant; or

(ii) Included in the conforming transportation plan (even if it is not specifically included in the latest conforming TIP) with design concept and scope adequate to determine its contribution to the transportation plan's regional emissions at the time of the transportation plan's conformity determination, and the design concept and scope of the project is not significantly different from that described in the transportation plan.

The TIP Amendment 11-28 meets these requirements:

- The TIP contains all the projects, which must be started in the TIP’s timeframe in order to achieve the highway and transit system envisioned in by the regional transportation plan (Transportation 2035 Plan).
- All TIP projects which are regionally significant are included in the Transportation 2035 Plan and have a design concept and scope adequate to determine their contribution to the Transportation 2035 Plan’s regional emissions at the time of the regional transportation plan’s conformity determination. Note that there are no new non-exempt, regionally significant projects being proposed for the TIP Amendment 11-28 that was not already identified in the financially constrained Transportation 2035 Plan.
- The design concept and scope of each regionally significant project in the TIP is not significantly different from those described in the Plan.
- All projects in the TIP Amendment 11-28 are from a conforming Plan. Allocating funds to these projects will not delay the implementation of projects in the Plan or TIP, which are necessary to achieve the highway and transit system envisioned by the Plan.

4. **Results of Previous Regional Emissions Analysis Comparing the Motor Vehicle Emissions to Budgets:** Motor vehicle emissions in the Bay Area must not exceed the applicable budgets measured in tons per day for the volatile organic compounds (VOCs), nitrogen oxides (NO_x) and carbon monoxide (CO) as contained in the State Implementation Plan (SIP). In addition, to demonstrate PM_{2.5} conformance, the PM_{2.5} regional emissions analysis, which was based on No Build/Build emissions test, must show that the emissions from the Build scenario not exceed the No Build scenario. Relevant tables from the previous regional emissions analysis are provided below. Please refer to the above referenced Conformity Report for details on this analysis.

Table 1: VOC and NO_x Emissions Budget from 2001 Ozone Attainment Plan (Tons/Day)

| | |
|---|-------|
| VOC | |
| 2006 On Road Motor Vehicle Emissions | 168.5 |
| 2006 Mobile Source Control Measure Benefits | (4.0) |
| 2006 TCM Benefits | (0.5) |
| 2006 Emissions Budget | 164.0 |
| NO_x | |
| 2006 On Road Motor Vehicle Emissions | 271.0 |
| 2006 TCM Benefits | (0.7) |
| 2006 Emissions Budget | 270.3 |

Table 2: Vehicle Activity Forecasts

| | 2015 | 2025 | 2035 |
|--------------------------|------------|------------|------------|
| Vehicles in Use | 5,188,500 | 5,843,400 | 6,323,000 |
| Daily VMT (1000s) | 165,000 | 183,600 | 198,200 |
| Engine Starts | 34,401,600 | 38,428,400 | 41,477,100 |

Table 3a: Emissions Budget Comparisons for Ozone Precursors (Tons/Day)*

| Year | VOC Budget** | On-Road Motor Vehicles VOC | TCMs*** | Net Emissions |
|------|--------------|----------------------------|---------|---------------|
| 2015 | 164.0 | 69.08 | (0.3) | 68.78 |
| 2025 | 164.0 | 46.98 | (0.3) | 46.68 |
| 2035 | 164.0 | 35.19 | (0.3) | 34.89 |

| Year | NO _x Budget* | On-Road Motor Vehicles NO _x | TCMs** | Net Emissions |
|------|-------------------------|--|--------|---------------|
| 2015 | 270.3 | 103.07 | (0.5) | 102.57 |
| 2025 | 270.3 | 59.96 | (0.5) | 59.46 |
| 2035 | 270.3 | 40.80 | (0.5) | 40.30 |

*Emissions for summertime and wintertime

**2001 Ozone Attainment Plan

***The transit services for TCM A Regional Express Bus Program were modeled. The emission benefits from TCM A are therefore included in the On-Road Motor Vehicles VOC and NO_x emission inventories for 2006 and beyond.

Table 3b: Emissions Budget Comparisons for Carbon Monoxide (Tons/Day)

| Year | 2004 CO Budget** | Estimated CO |
|------|------------------|--------------|
| 2015 | 1,850 | 581.84 |
| 2018 | 1,850 | 506.63*** |
| 2025 | 1,850 | 331.15 |
| 2035 | 1,850 | 252.99 |

*Emissions for summertime and wintertime

**2004 Revision to the California State Implementation Plan for Carbon Monoxide, Updated Maintenance Plan for 10 Federal Planning Areas

***Estimated CO emissions for 2018 is extrapolated from the 2015 and 2025 analysis years.

Table 4: Emissions Reductions for Transportation Control Measures (TCMs) A-E in State Implementation Plan through December 2006 (Tons/Day)

| TCM | VOC Emission Reductions through December 2006 | NOx Emission Reductions through December 2006 |
|---|---|---|
| TCM A Regional Express Bus Program | 0.20 | 0.20 |
| TCM B Bicycle/Pedestrian Program | 0.04 | 0.03 |
| TCM C Transportation for Livable Communities | 0.08 | 0.12 |
| TCM D Expansion of Freeway Service Patrol | 0.10 | 0.25 |
| TCM E Transit Access to Airports | 0.09 | 0.13 |
| Total Reductions | 0.5 | 0.7 |

Table 5: Vehicle Activity Forecasts for PM2.5 Build/No Build Test

| | 2015 | | 2025 | | 2035 | |
|--------------------------|------------|------------|------------|------------|------------|------------|
| | No Build | Build | No Build | Build | No Build | Build |
| Vehicles In Use | 5,322,900 | 5,188,500 | 5,856,400 | 5,843,400 | 6,363,800 | 6,323,000 |
| Daily VMT (1000s) | 169,200 | 165,000 | 184,000 | 183,600 | 199,400 | 198,200 |
| Engine Starts | 35,295,600 | 34,401,600 | 38,515,800 | 38,428,400 | 41,747,800 | 41,477,100 |

Table 6: Emissions Comparisons for Build/No Build Test for PM2.5*

| | 2015 | | 2025 | | 2035 | |
|-------------------------|----------|--------|----------|-------|----------|-------|
| | No Build | Build | No Build | Build | No Build | Build |
| PM_{2.5} | 5.92 | 5.66 | 5.87 | 5.78 | 6.36 | 6.14 |
| NO_x | 112.63 | 109.55 | 60.36 | 60.16 | 42.87 | 42.85 |

5. **Financial Constraint:** The TIP Amendment 11-28 is financially constrained based on revenue estimates from the State at the time of its preparation.
6. **Interagency and Public Consultation:** Given that there are no significant changes being made as part of this TIP amendment and the 2011 TIP continues to reflect the projects listed in the Transportation 2035 Plan, this Conformity Analysis meets the outreach requirements as specific in the MTC Public Participation Plan.

Next Steps

The Commission is scheduled to approve the TIP Amendment 11-28 it at its September 26, 2012 meeting (MTC Resolution No. 4076).

2 Conformity Findings

Based on the analysis, the following conformity findings are made:

- This conformity assessment was conducted consistent with U.S. EPA's transportation conformity regulations and with the Bay Area Air Quality Conformity Protocol adopted by MTC as Resolution No. 3757.
- The Transportation 2035 Plan and the TIP Amendment 11-28 provide for implementation of TCMs pursuant to the following federal regulation:
 - (1) *An examination of the specific steps and funding source(s) needed to fully implement each TCM indicates that TCMs which are eligible for funding under title 23 U.S.C. or the Federal Transit Laws are on or ahead of the schedule established in the applicable implementation plan, or, if such TCMs are behind the schedule established in the applicable implementation plan, the MPO and DOT have determined that past obstacles to implementation of the TCMs have been identified and have been or are being overcome, and that all State and local agencies with influence over approvals or funding for TCMs are given maximum priority to approval or funding to TCMs over other projects within their control, including projects in locations outside the non-attainment or maintenance area.*
 - (2) *If TCMs in the applicable implementation plan have previously been programmed for Federal funding but the funds have not been obligated and the TCMs are behind the schedule in the implementation plan, then the TIP cannot be found to conform if the funds intended for those TCMs are reallocated to projects in the TIP other than TCMs, or if there are no other TCMs in the TIP, if the funds are reallocated to projects in the TIP other than projects which are eligible for Federal funding intended for air quality improvements projects, e.g., the Congestion Mitigation and Air Quality Improvement Program.*
 - (3) *Nothing in the TIP may interfere with the implementation of any TCM in the applicable implementation plan. (40 CFR Part 93.113(c)).*
- For carbon monoxide, motor vehicle emissions in the Transportation 2035 Plan and the TIP Amendment 11-28 are lower than the transportation conformity budget in the SIP.
- For the two ground-level ozone precursors (VOC and NO_x), motor vehicle emissions in the Transportation 2035 Plan and the TIP Amendment 11-28 are lower than the applicable motor vehicle emission budgets for the national 8-hour ozone standard.

- For PM2.5 and NOx, the Build/No Build test shows that the motor vehicle emissions are lower under the Build scenario when compared to the No Build scenario.

Appendix A1 - Draft List of TIP Project Changes

| TIP ID | RTP ID | Sponsor | Project Name | Project Description | Reason | Air Quality Description | Analysis Year |
|-----------|--------|-------------|--|---|---|---|---------------|
| SF-070040 | 21005 | SFMTA | SF Downtown Parking Pricing | San Francisco: Downtown: Implement variable pricing program study and assess options for implementing a residential parking pricing pilot and develop transferable technical specifications for SF park | Update scope to include parking study, update lead agency to SFMTA and add in \$420K in VPPP funds in FY13 and \$105K in Other Local funds | EXEMPT (40 CFR 93.126) - Planning activities conducted pursuant to titles 23 and 49 U.S.C | 2035 |
| ALA050082 | 21011 | Dublin | E. Dublin BART Station Corridor Bike/Ped Enh. | Dublin: E. Dublin BART Station corridor; Multi-modal improvements including bike/ped & transit safety improvements, gateway enhancement, other streetscape improvements and resurfacing on Dublin | Update the funding plan to reprogram CON Earmark-STP funds from FY09 to FY13 and reduce to \$297K from \$300K; and update the project description to include resurfacing on Dublin Blvd | EXEMPT (40 CFR 93.126) - Transportation enhancement activities (except rehabilitation and operation | 2035 |
| ALA110104 | 21011 | MTC | SFOBB Gateway Park | SFOBB Gateway Park in Alameda County, in Oakland at the Oakland Touchdown of the new East Span of the Bay Bridge | Add new project for SFOBB Gateway Park with \$30M in STIP funds, \$6M in Other Local funds, \$17M in Bridge funds and \$84 million in RTP-LRP funds | NON-EXEMPT | 2035 |
| ALA977038 | 21015 | Caltrans | San Francisco-Oakland Bay Bridge | In San Francisco-Oakland: Bay Bridge: East Span Replacement Project; Near Toll Plaza Building: Reconstruct maintenance facilities | Update the funding plan to add \$40.6M in FY14 SHOPP-Facilities funds and add reconstruction of maintenance facilities to project description | EXEMPT (40 CFR 93.126) - Widening narrow pavements or reconstructing bridges (no additional travel | 2015 |
| ALA090060 | 21017 | SJRC | SJRC: Rebuild Diesel Locomotives | San Joaquin Rail Commission: 3 of our locomotives: complete an overhaul of the prime mover, replace head-end power generator-sets, perform body work, and repaint | Update the funding plan to reflect the latest programming information and add \$1.15M in FY13 CON 5307 and \$289K in FY13 CON Other Local funds | EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles | 2035 |
| REG110021 | 21017 | WETA | WETA: Revenue Vehicle Communication Equipment | WETA: Purchase and/or upgrade revenue vehicle communication equipment. | Update the funding plan to add \$130K in FY13 CON FEMA funds | EXEMPT (40 CFR 93.126) - Construction or renovation of power, signal, and communications systems | 2035 |
| MRN070012 | 21302 | Sausalito | Sausalito - Non-motorized Transp. Pilot Program | Sausalito: Construct infrastructure, network planning, & educational programs to ascertain whether bicycling and walking can result in greater share of overall trips and reduce SOV usage. | Update the funding plan to reprogram \$160K from FY12 CON to FY13 CON and \$148K from FY12 CON to a new FY13 ROW phase | EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities | 2035 |
| ALA050002 | 21451 | San Leandro | SR 185- E. 14th St/ Hesperian Blvd/150th Ave | San Leandro: 150th/E. 14th/Hesperian; construct NB left turn Ln from Hesperian to E.14th, EB left turn Ln from E.14th to 150th Av & SB Ln from Hesperian to 150th and other traffic circulation | Add the project into the TIP by adding in \$466,200 in FY13 CON Sales Tax Measure B Funding | NON-EXEMPT | 2015 |
| SF-070011 | 21502 | Port of SF | Cargo Way Bay Trail Improvements | San Francisco: Bay Trail on Cargo Way; Construct bike/ped trail to close gap on the region Bay Trail. | Delete project from the TIP because the scope and costs are included in the Bayview Transportation Improvement and Hunters Point Shipyard projects | EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities | 2035 |
| SF-010037 | 21510 | SFMTA | SF Muni Third St LRT Phase 2 - New Central Subway | San Francisco: North-south alignment under 4th St. to Market, then under Geary to Stockton & under Stockton to Clay St; Extend the Light Rail line project includes procurement of four LRVs. | Update the funding plan to reprogram \$9M in CON TCRP from FY10 to FY11, \$129M in Prop-1B from FY15 to FY11, \$57M in CON SalesTax from FY15 to FY12, \$61.3M in CON Prop-1A from FY15 to FY13 | NON-EXEMPT | 2025 |
| SM-090011 | 21892 | SMCTA | Widen Woodside Rd from 4 to 6 lanes btw ECR and BW | Redwood City: Widen portions of Woodside Road from 4 to 6 Lanes from El Camino Real to Broadway | Update funding plan to reduce total project cost by \$5.1M and clarify scope | NON-EXEMPT | 2015 |
| SCL110005 | 21921 | VTA | BART - Warm Springs to Berryessa Extension | In Santa Clara County: This project will extend BART from Warm Springs to the future Berryessa Station in San Jose, California. | Update funding plan to reflect the 5309 full funding grant agreement | NON-EXEMPT | 2025 |

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| TIP ID | RTP ID | Sponsor | Project Name | Project Description | Reason | Air Quality Description | Analysis Year |
|-----------|--------|------------------|---|--|---|--|---------------|
| SCL110007 | 22186 | Santa Clara Co | San Tomas Expressway Widening | In Santa Clara County: Widen San Tomas Expressway between El Camino Real and Williams Road including adding sidewalks, adding a Class 1 Bike Path and replacing sound walls | Update the project description to clarify exempt project elements already included in the project scope and update the funding plan to delay Ph1 ROW to FY13, Ph1 CON to FY17, Ph2 PE to FY20 and Ph2 | NON-EXEMPT | 2025 |
| SON090005 | 22191 | Sonoma County TA | Airport OC/IC - US 101 | In Sonoma County: Replace Airport Blvd overcrossing and reconstruct interchange with US 101. Improve operations between Airport and Fulton. Construct soundwalls. (Project is the second phase of the (SON010019). | Update the funding plan to change the source for \$17.7M in CON and \$4.5M in CON-CT funds from local to Prop 1B-CMIA and for \$1.9M in CON funds from local to Prop-1B-SLPP; reprogram those funds from FY15 to FY12 and remove \$892K in FY15 CON local funds | NON-EXEMPT | 2015 |
| SCL050039 | 22247 | San Jose | Almaden Expressway Ped. Bridge | San Jose: Pedestrian bridge over Almaden Expressway and Guadalupe Creek to connect nearby trails and to the Almaden Light Rail Station | Update the scope and update the funding plan to add \$100K in FY13 PE funds and to reprogram CON and ROW phases to FY17 | EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities | 2035 |
| SF-110002 | 22249 | SF City/County | UCSF at Mission Bay Transportation Improvements | San Francisco: In Mission Bay: Construct transportation improvements including extensions of Owens Street and 4th Street from 16th Street to Mariposa Street; improvements to 16th Street, Mariposa Street | Update the funding plan to change the fund source for \$10M in RTP funds to TIGER and update the project description to clarify the scope | NON-EXEMPT | 2035 |
| SM-070002 | 22274 | CCAG | San Mateo Countywide ITS Improvements | San Mateo County: County-wide; ITS improvements at various locations in San Mateo County. | Update funding plan to add in \$300K in FY15 ENV RIP funds, \$400K in FY15 PSE RIP funds and \$1.521M in FY16 CON RIP funds and reprogram \$1.977M in FY13 RIP funds to FY16 | EXEMPT (40 CFR 93.126) - Traffic control devices and operating assistance other than signalization | 2035 |
| SM-090014 | 22282 | SMCTA | Improve US 101 operations near Rte 92 | City of San Mateo: On US 101; Operational improvements near Route 92 | Update the funding plan to remove \$589K in FY13 ENV local funds and change the fund source for \$2.411M in the same to RIP; and reprogram PE phase from FY11 to FY16, ENV phase from FY13 to FY16 | NON-EXEMPT | 2035 |
| SCL110120 | 22423 | VTA | Together We Ride One-Call/One-Click Centers | In Santa Clara County: This project will build or expand local One-Call/One-Click Centers in Santa Clara County to improve access to a wide array of transportation services available for veterans, military | Amend in a new exempt project into the TIP with \$1.6M in Veterans Transportation and Community Living Initiative grants and match of \$450K | EXEMPT (40 CFR 93.126) - Purchase of office, shop, and operating equipment for existing facilities | 2035 |
| ALA110105 | 22455 | AC Transit | San Leandro BART - Transit Access Improvements | San Leandro: At San Leandro BART Station: Make bus, pedestrian, and bicycle access improvements in preparation for the implementation of the East Bay Bus Rapid Transit. This is a project is related to | Amend in a new exempt project with \$1.2M in CMAQ funds and \$2.7M in Prop 1B funds | EXEMPT (40 CFR 93.127) - Bus terminals and transfer points | 2015 |
| SM-090025 | 22481 | Caltrain | Caltrain: Preventive Maintenance | Caltrain: Preventive Maintenance | Delete project from the TIP as the scope and remaining funding is a duplicate of TIP ID REG090053. | EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for | 2035 |
| CC-090016 | 22614 | Martinez | Construct Martinez Intermodal Station (Phase 3) | Construct Martinez Intermodal Station (Phase 3) including an additional 425 parking spaces and vehicle and pedestrian bridges | Delete project from the TIP as it is a duplicate of CC-030004 | NON-EXEMPT | 2025 |
| ALA090026 | 22760 | Port of Oakland | Outer Harbor Intermodal Terminals (OHIT) | In Oakland: OHIT, a proposed intermodal rail complex, will be located on the former Oakland Army Base and adjacent land. | Update the funding plan to program \$15M in TIGER funds, program a total of \$242.1M in Prop-1B-TCIF to FY14 | NON-EXEMPT | 2015 |

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| TIP ID | RTP ID | Sponsor | Project Name | Project Description | Reason | Air Quality Description | Analysis Year |
|-----------|--------|----------------|--|--|---|--|---------------|
| ALA991084 | 22991 | ACTC | I-680 Sunol Grade - Alameda SB HOV Final Phase | Sunol Grade Corridor: Stone Ridge in Alameda County to SR 237 in Santa Clara County: Final project phase - Construction of HOV lane, shoulders and other project clean up. Alameda portion. Additional | Update funding plan to add in \$200K in Other Local funds for Landscaping | NON-EXEMPT | 2015 |
| SF-991030 | 94089 | SF County TA | US 101 Doyle Drive Replacement | San Francisco: US 101 (Doyle Drive) from Lombard Street/Richardson Avenue to Route 1 Interchange; Replace/rehabilitate roadway. | Update funding plan to add \$81M in SHA funds per CTC action | NON-EXEMPT | 2015 |
| SF-090043 | 94636 | SFMTA | SFMTA: Motor coach replacement- 45 NABI buses | SFMTA: Replace 45 NABI standard motor coaches that are at the end of their useful life. | Update the funding plan to add \$15M in FY12 CON 5309-Bus funds and reprogram \$3.75M in CON Sales-tax funds from FY11 to FY12 | EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for | 2035 |
| SM-979013 | 94656 | Caltrans | SR 1 Devils Slide Bypass | San Mateo County: SR 1 between 2nd Street in Montara and Linda Mar Boulevard in Pacifica; Construct new bypass with tunnel(s) and approaches. | Update funding plan to add in \$182M in FY12 emergency relief funds | NON-EXEMPT | 2015 |
| SM-030010 | 94666 | Caltrain | Caltrain: Systemwide Security | Caltrain: Security enhancements such as fencing, the installation of panic buttons, fire alarms, surveillance/communication equipment and site hardening of facilities along the Caltrain Corridor. | Update funding plan to add in \$1.88M in Prop 1B transit security grant funds | EXEMPT (40 CFR 93.126) - Purchase of office, shop, and operating equipment for existing facilities | 2035 |
| SM-110062 | 94666 | SamTrans | Samtrans - Replace 62 1998 Gillig Buses | Samtrans: Replace 62 1998 Gillig Buses, which have exceeded their useful life. | Amend in a new exempt project with \$4.95M in FY13 5309 SGR funds,\$5.42M in FY13 Prop 1B funds, \$25.66M in Other Local funds | EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for | 2035 |
| SM-110001 | 94667 | SamTrans | Redi-Wheels Expansion Vehicles | Increase the Redi-Wheels fleet by purchasing two new cut-away buses. | Delete project from the TIP as the funds are part of the existing grouped listing | NON-EXEMPT | 2035 |
| ALA090012 | 230066 | San Leandro | I-880/Marina Blvd Interchange and Overcrossing Rep | San Leandro: I-880/ Marina Blvd. Replace overcrossing and widening roadway plus ramp interchange reconfiguration, intersection improvements including interchange landscaping and bridge architectural | Update scope to include landscaping and architectural bridge features. Update funding plan to reflect the current schedule and reduce ROW phase by \$1.5M | NON-EXEMPT | 2015 |
| SCL090002 | 230210 | Santa Clara Co | San Tomas Expressway Box Culvert Rehabilitation | In Santa Clara:Design, environmental clearance, and construction for rebuilding the box culvert under San Tomas Expressway. | Update funding plan to reprogram CON phase from FY15 to FY13 | EXEMPT (40 CFR 93.126) - Widening narrow pavements or reconstructing bridges (no additional travel | 2025 |
| ALA050035 | 230396 | Alameda County | Cherryland/Ashland/CastroValley/Fairview Sidwklmp | Cherryland, Ashland, Castro Valley and Fairview: Sidewalk improvements in the vicinity of Schools within unincorporated Alameda County area. | Update the funding plan to reprogram \$640K in CON Earmark-STP funds from FY12 to FY13 and update the project description and title to include Fairview | EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities | 2025 |
| SM-090005 | 230434 | Foster City | Triton Drive Widening | In Foster City: Construct additional eastbound lane on Triton Drive between Foster City Blvd. and Pilgrim Drive. in addition, re-stripe Metro Center Boulevard and re-align traffic median on east bound MCB | Clarify scope and funding plan to reprogram CON phase funds to FY13 | NON-EXEMPT | 2035 |
| MRN070006 | 230549 | Novato | Novato Boulevard Improvements, Diablo to Grant | Novato: Novato Blvd between Diablo and Grant Ave.: Improvements to roadway including including widening existing two/three lanes to four lanes and adding turn lanes, bike lanes, curbs, and sidewalks. | Update scope to include bike lanes and funding plan to reduce the project cost by \$2.9M and add in the PE phase to show full project funding | NON-EXEMPT | 2035 |
| REG110036 | 230550 | MTC | Climate Initiatives Program | Climate Initiatives Program: Regionwide, support for programs to encourage sustainable transportation behavioral changes to reduce criteria pollutants and greenhouse gases | Amend in a new exempt program into the TIP with \$17M in CMAQ funds and \$2.2M in Other Local funds | EXEMPT (40 CFR 93.126) - Grants for training and research programs | 2035 |

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|-----------|--------|----------|--|--|---|--|---------------|
| SF-110044 | 230594 | BART | Regional Real-Time Transit Information at BART | In downtown Oakland and downtown San Francisco: at six key intermodal BART stations: add additional real time transit information displays | Amend a new exempt project into the TIP with \$3.168M in FY 2013 5309-Bus and \$1.23M in FY 13 Other Local funds | EXEMPT (40 CFR 93.126) - Directional and informational signs | 2035 |
| CC-110081 | 230631 | Caltrans | Oakley to Port Chicago, Track Seg. 3, Phase 2 | Oakley to Port Chicago, Track Seg. 3, Phase 2 | Amend a new non-exempt project into the TIP using \$20.5M in FY14 CON STIP funds | NON-EXEMPT | 2015 |
| SCL110008 | 230676 | VTA | SR 237 Express Lanes: I-880 to Mathilda Ave | In Santa Clara County: Implement roadway pricing on SR 237 carpool lane. | Update the funding plan to reprogram ENV and PSE phases to FY13, reprogram CON phase from FY16 to FY14 and change the fund source for RTP funds to Other Local | NON-EXEMPT | 2025 |
| REG090058 | 230703 | Caltrans | GL: Pvmt Resurf/Rehab SHS - Highway Maint. | GL: Pavement Resurf/Rehab State Highway System - Highway Maintenance. Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories - Pavement resurfacing and/or | Split out ongoing projects to VAR110031 along with \$29.5M in funding | EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation | 2025 |
| VAR110031 | 230703 | Caltrans | GL: Pvmt Resurf/Rehab SHS - Highway Maint. | GL: Pavement Resurf/Rehab State Highway System - Highway Maintenance. Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories - Pavement resurfacing and/or | Split out ongoing projects from REG090058 to this grouped listing along with \$29.5M in funding | EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation | 2035 |
| REG110030 | 230710 | Caltrain | Caltrain Positive Train Control System | CBOSS/PTC is an advanced train control system that allows for automated collision prevention, improved manual collision prevention, and improved headways. The FRA has mandated PTC be in place by | Update the funding plan to show full project funding with FRA funds, Prop 1A funds, Prop 1B SLPP funds, Other Local and Prop 1B PTMISEA funds | EXEMPT (40 CFR 93.126) - Construction or renovation of power, signal, and communications systems | 2025 |
| SM-070008 | 230710 | Caltrain | Caltrain Express: Phase 2 | Redesign of the SF and SJ terminals and approaches to add capacity & provide station amenities to accommodate all rail operators; and advanced signal technology. | Update funding plan to reprogram all RTP-LRP funds to FY17 and remove all Other Federal funds. The scope has been reduced to remove positive train control as it is part of REG110030 | NON-EXEMPT | 2025 |
| MTC050009 | 230713 | Caltrans | GL: Pavement Resurf./Rehab - SHOPP Roadway Presv. | Grouped Listing: SHOPP - Roadway Preservation. Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 categories | Split out ongoing projects to VAR110003 along with \$109M in funding | EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation | 2035 |
| MTC050011 | 230713 | Caltrans | GL: Safety Imprv. - SHOPP Collision Reduction | GL: SHOPP - Collision Reduction. Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories. | Update the grouped listing to reflect the latest information from Caltrans; split out ongoing projects along with \$171.3M to VAR110004 | EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation | 2035 |
| REG070001 | 230713 | Caltrans | GL: Emergency Repair - SHOPP Emergency Response | Grouped Listing for SHOPP - Emergency Response. Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 categories - Repair damage caused by natural disasters, civil unrest, or terrorist acts. | Split out ongoing projects to VAR110005 along with \$199.6M in funding | EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation | 2035 |
| REG070009 | 230713 | Caltrans | GL: Safety Imprv - Highway Safety Improvement Prog | GL: Safety Imprv - Highway Safety Improvement Program. Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories. | Update the funding plan to add \$13M and update the grouped listing to reflect the latest information from Caltrans and split out ongoing projects to VAR110007 along with \$21.8M in funding | EXEMPT (40 CFR 93.126) - Highway Safety Improvement Program implementation | 2035 |
| VAR110003 | 230713 | Caltrans | GL: Pavement Resurf./Rehab - SHOPP Roadway Presv. | Grouped Listing: SHOPP - Roadway Preservation. Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 categories | Split out ongoing projects from MTC050009 to this grouped listing along with \$109M in funding and update the funding plan and back-up listing based on the latest information from Caltrans | EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation | 2035 |

Appendix A1 - Draft List of TIP Project Changes

| TIP ID | RTP ID | Sponsor | Project Name | Project Description | Reason | Air Quality Description | Analysis Year |
|-----------|--------|----------|--|--|--|--|---------------|
| VAR110004 | 230713 | Caltrans | GL: Safety Imprv. - SHOPP Collision Reduction | GL: SHOPP - Collision Reduction. Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories. | Split out ongoing projects from MTC050011 to this grouped listing along with \$171.3M in funding and update the funding plan and back-up listing to reflect the latest information from Caltrans | EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation | 2035 |
| VAR110005 | 230713 | Caltrans | GL: Emergency Repair - SHOPP Emergency Response | Grouped Listing for SHOPP - Emergency Response. Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 categories - Repair damage caused by natural disasters, civil unrest, or terrorist acts. | Split out ongoing projects from REG070001 to this grouped listing along with \$199.6M in funding and update the funding plan and back-up listing to reflect the latest information from Caltrans | EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation | 2035 |
| VAR110007 | 230713 | Caltrans | GL: Safety Imprv - Highway Safety Improvement Prog | GL: Safety Imprv - Highway Safety Improvement Program. Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories. | Split out ongoing projects from REG070009 to this grouped listing along with \$21.8M in funding and update the funding plan and back-up listing to reflect the latest information from Caltrans | EXEMPT (40 CFR 93.126) - Highway Safety Improvement Program implementation | 2035 |
| VAR110042 | 230713 | Caltrans | GL: Safety Improvements - SHOPP Mandates | GL: Safety Improvements - SHOPP Mandates. Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories. | Split out ongoing projects from VAR991003 to this grouped listing along with \$30.35M in funding and update the funding plan and back-up listing to reflect the latest information from Caltrans | EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation | 2035 |
| VAR110044 | 230713 | Caltrans | GL: Bridge Rehab and Reconstruction - SHOPP | GL: Bridge Rehab/Reconst-SHOPP. Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 categories - Widening narrow pavements or reconstructing bridges (no additional travel lanes). | Split out ongoing projects from VAR991005 to this grouped listing along with \$359.9M in funding and update the funding plan and back-up listing to reflect the latest information from Caltrans | EXEMPT (40 CFR 93.126) - Widening narrow pavements or reconstructing bridges (no additional travel | 2035 |
| VAR991003 | 230713 | Caltrans | GL: Safety Improvements - SHOPP Mandates | GL: Safety Improvements - SHOPP Mandates. Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories. | Split out ongoing projects to VAR110042 along with \$30.35M in funding | EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation | 2035 |
| VAR991005 | 230713 | Caltrans | GL: Bridge Rehab and Reconstruction - SHOPP | GL: Bridge Rehab/Reconst-SHOPP. Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 categories - Widening narrow pavements or reconstructing bridges (no additional travel lanes). | Update the funding plan and back-up listing to reflect the latest information from Caltrans; split out ongoing projects along with \$359.9M to VAR110044 | EXEMPT (40 CFR 93.126) - Widening narrow pavements or reconstructing bridges (no additional travel | 2035 |
| REG090001 | 230715 | Caltrans | GL: Safety Improvements - SRTS | GL: Safety Improvements - Safe Routes to School (SRTS) program. At various locations, Safe Routes to School (SRTS) projects. Consistent with 40 CFR Part 93.126, 127, 128, Exempt Tables 2 & 3. | Split out ongoing projects to VAR110012 along with \$16.2M in funding | EXEMPT (40 CFR 93.126) - Highway Safety Improvement Program implementation | 2035 |
| VAR110012 | 230715 | Caltrans | GL: Safety Improvements - SRTS | GL: Safety Improvements - Safe Routes to School (SRTS) program. At various locations, Safe Routes to School (SRTS) projects. Consistent with 40 CFR Part 93.126, 127, 128, Exempt Tables 2 & 3. | Split out ongoing projects from REG090001 to this grouped listing along with \$16.2M in funding and update the funding plan and back-up listing to reflect the latest information from Caltrans | EXEMPT (40 CFR 93.126) - Highway Safety Improvement Program implementation | 2035 |