

REGIONAL TRANSPORTATION COMMISSION TECHNICAL ADVISORY COMMITTEE MEETING AGENDA

Wednesday, June 5, 2019 at 9:00 am Regional Transportation Commission 1st Floor Conference Room 1105 Terminal Way, Reno NV 89502

I. The RTC 1st Floor Conference Room is accessible to individuals with disabilities. Requests for auxiliary aids to assist individuals with disabilities should be made with as much advance notice as possible. For those requiring hearing or speech assistance, contact Relay Nevada at 1.800.326.6868 (TTY, VCO or HCO). Requests for supporting documents and all other requests should be directed to RTC Metropolitan Planning at 775-348-0480. Supporting documents may also be found on the RTC website: <u>www.rtcwashoe.com</u>.

I. The Technical Advisory Committee (TAC) has a standing item for accepting public comment on topics relevant to the RTC TAC that are not included on the agenda. No action may be taken on a matter raised under this item of the agenda until the matter itself has been specifically included on an agenda as an item upon which action will be taken. For specific items on the TAC agenda, public comment will be taken at the time the item is discussed. Individuals providing public comment will be limited to three minutes. Individuals acting as a spokesperson for a group may request additional time. Attempts to present public input in a disruptive manner will not be allowed. Remarks will be addressed to the TAC as a whole and not to individual members.

III. The TAC may combine two or more agenda items for consideration and/or may remove an item from the agenda or delay discussion relating to an item on the agenda at any time.

- **ITEM 1** Approval of Agenda (For Possible Action)
- **ITEM 2** Public Comment please read paragraph II near the top of this page
- **ITEM 3** Approval of the May 1, 2019 Meeting Minutes (For Possible Action)
- **ITEM 4** Receive a Report on the Status of the Virginia Street Bus RAPID Transit Extension Project (*For Possible Action*)
- **ITEM 5** Recommend Approval of the Congestion Mitigation and Air Quality Improvement Program (CMAQ) Project Selection Guidance (*For Possible Action*)
- **ITEM 6** Recommend Approval of the Proposed Amendment No. 3 to the Regional Transportation Improvement Plan (RTIP) *(For Possible Action)*
- **ITEM 7** Development Updates (Informational Only)

ITEM 8 Member Items

- a) City of Reno b) Reno-Tahoe Airport Authority
- c) City of Sparks d) FHWA
- e) Washoe County f) Air Quality Management Div. (AQMD)
- g) NDOT h) TMRPA
- i) WCSD j) Reno-Sparks Indian Colony (RSIC)
- **ITEM 9** Agenda Items for Future TAC Meetings (For Possible Action)
- **ITEM 10** RTC Staff Items (Informational Only)

ITEM 11 Public Comment - please read paragraph II near the top of this page

ITEM 12 Adjournment (For Possible Action)

The Committee may take action on any item noted for possible action

Posting locations: Washoe Co. Admin. Bldg., 1001 E. 9th St., Reno, NV; RTC, 1105 Terminal Way, Reno, NV; 4th STREET STATION, 200 E. 4th St., Reno, NV; CENTENNIAL PLAZA, Victorian Square, Sparks, NV; Sparks City Hall, 431 Prater Way, Sparks, NV; Reno City Hall, 1 E. First St., Reno, NV; Incline Village General Imp. Dist., 893 Southwood Blvd., Incline Village, NV; area press & media via fax; RTC website: <u>www.rtcwashoe.com</u>, State website: <u>https://notice.nv.gov/</u>

REGIONAL TRANSPORTATION COMMISSION TECHNICAL ADVISORY COMMITTEE

Meeting Minutes

Wednesday, May 1, 2019

Attendees

Daniel Inouye	Washoe County Health District-Air Quality Management
	Division
Mitchell Fink	Washoe County Community Services
Chair, Kelly Mullin	Washoe County Community Services
Kurt Dietrich	City of Reno, Public Works
Arlo Stockham	City of Reno Community Development
Chris Tolley	Truckee Meadows Regional Planning Agency
Scott Carey	Reno-Sparks Indian Colony
Vice-Chair, Amber Sosa	City of Sparks, Engineering Services
Armando Ornelas	City of Sparks Community Services
Richard Oujevolk	Nevada Department of Transportation District II
Kevin Verre	Nevada Department of Transportation
Mike Boster	Washoe County School District
Gary Probert	Reno-Tahoe Airport Authority

RTC Staff

Amy Cummings Rebecca Kapuler Julie Masterpool Stephanie Haddock Dan Doenges David Carr Jelena Williams Jacqueline Maldonado

Guests

Adam Carmazzi, Michael Baker International

The Committee met in the First Floor Conference Room, 1105 Terminal Way, Reno, Nevada. The meeting was called to order at 9:00 a.m. by the Chair, Kelly Mullin.

ITEM 1. **APPROVAL OF AGENDA**

The agenda was approved as submitted.

ITEM 2. **PUBLIC COMMENT**

There were no public comments.

ITEM 3. APPROVAL OF THE APRIL 3, 2019 MEETING MINUTES

The minutes of the TAC meeting April 3, 2019, meeting minutes were approved.

ITEM 4. RECOMMEND APPROVAL OF THE DRAFT FY 2020 RTC BUDGET

Jelena Williams, RTC Financial Manager gave a presentation the draft FY 2020 RTC Budget. A copy of the PowerPoint presentation is at the RTC Metropolitan Planning Department. The final budget is scheduled for presentation to the RTC Board for adoption on May 20, 2019, after a public hearing. She then asked if there were questions. A discussion on the CitiCare program which, was renamed and a discussion on the transit services followed.

Dan Inouye recommended approval of the draft FY 2020 RTC Budget.

Arlo Stockham seconded.

The motion carried unanimously.

ITEM 5. ACKNOWLEDGE RECEIPT OF REPORT ON THE RTC TRANSPORTATION ALTERNATIVES (TA) SET-ASIDE PROGRAM CALL FOR PROJECTS

Rebecca Kapuler, RTC Planner briefed the committee on the report of the RTC Transportation Alternatives (TA) Set Aside Program Call for Projects. The project applications are due by 5:00 p.m. on June 12, 2019. The applications received will be presented to the TAC and CMAC for discussion and recommendation to the RTC Board. She then asked if there were questions. A discussion continued on the program call for projects and the FFY 2019 TA Set-Aside funding available amount of \$136,000 followed.

Arlo made a motion to acknowledged receipt of report on the RTC Transportation Alternatives (TA) Set-Aside Program Call for Projects.

Kurt Dietrich seconded.

The motion carried unanimously.

ITEM 6. ACKNOWLEDGE RECEIPT OF A PRESENTATION ON THE REGIONAL ROAD IMPACT FEE PROGRAM AND RECOMMEND APPROVAL OF THE RRIF GAM AND CIP

Julie Masterpool, RTC RRIF Program Manager, gave a presentation on the Regional Road Impact Fee (RRIF), RRIF General Administrative Manual (RRIF GAM) and Capital Improvement Plan (CIP). A copy of the PowerPoint presentation is on file at the RTC Metropolitan Planning Department. A list of the North and South service area CIP was given at the meeting for review.

She then asked if there were questions. A discussion continued on the proposed changes and recommendations to the RRIF GAM and CIP. A discussion on the RRIF and the land use, traffic volumes for public schools/private schools followed.

Dan Inouye acknowledged receipt of a presentation on the Regional Road Impact Fee Program and Recommend Approval of the RRIF GAM and CIP.

Chris Tolley seconded.

The motion carried unanimously.

ITEM 7. DEVELOPMENT UPDATES

Chair, Kelly Mullin, Washoe County gave updates on usage of residential containers for storage on residential areas.

Arlo, City of Reno gave updates on City of Reno developments underway.

Vice-Chair, Amber Sosa, City of Sparks gave development updates for downtown City of Sparks.

ITEM 8. MEMBER ITEMS

Kurt, City of Reno gave upcoming updates for City of Reno Council meetings.

Mike Boster, WCSD gave updates on new WCSD schools under development and six WCSD schools under construction.

Gary Probert, RTAA gave updates on the Phase 1 Runway Project for RTAA and the continued proposed relocation of their rental car facility study.

Dan Inouye, WCHD-AQ, announced the Air Quality awareness week and to connect to the social media for current updates.

Chris, TMRPA gave updates for upcoming Regional Planning Governing Board (RPGB) review of the draft policies, plan updates and RPGB meetings.

Scott Carey, RSIC gave updates on the NDOT Spaghetti Bowl Project coordination with RSIC and their timeline of the project. He also stated a letter sent to RTC from RSIC on removal of a bus stop or improvements at Mill Street and Reservation Road and is looking forward to working with the RTC staff on this project.

ITEM 9. AGENDA ITEMS FOR FUTURE TAC MEETINGS

There were no items given.

ITEM 10. RTC STAFF ITEMS

Rebecca announced Bike Month is in May and to go to the Truckee Meadows Bicycle Alliance (TMBA) website <u>www.bikewashoe.org</u> for more information on upcoming events. She also stated RTC is partnering with Reno Bike Project for a free ride bike repair clinic from 4:00 p.m. to 6:00 p.m. at RTC Fourth Street Station (4SS) on May 13, 2019.

ITEM 11. PUBLIC COMMENT

There were no public comments given.

ITEM 12. ADJOURNMENT

The meeting adjourned at 9:57 a.m.



June 5, 2019

AGENDA ITEM 4

TO: Technical Advisory Committee

FROM: Jeff Wilbrecht Engineer II

SUBJECT: Virginia Street Bus RAPID Transit Extension Project

RECOMMENDATION

Receive a report on the status of the Virginia Street Bus RAPID Transit Extension Project.

SUMMARY

Staff will provide an update on the status of the Virginia Street Bus RAPID Transit (BRT) Extension Project. The following outline summarizes various aspects of the project.

Roadway Design:

The 100 percent design plans for the project are complete.

Early Work Utility Project:

Construction activities associated with the utility relocations within the South Virginia-Midtown segment of the project are complete. The project team is in the process of closing out this stage of the project.

Roadway Reconstruction and BRT Project:

The RTC and Construction Manager at Risk (CMAR) executed an agreement for the construction work following approval at the May board meeting.

With the receipt of a Letter of No Prejudice from the FTA, roadway reconstruction in the South Virginia-Midtown segment of the project is on schedule to start June 17, 2019. Work in the North Virginia-UNR segment of the project is anticipated to begin mid-2020. With these anticipated start dates, the roadway construction and BRT improvements of both segments are scheduled to be complete by the end of 2020.

Outreach Activities:

The project team has continued its communications efforts as part of our strategic approach to keep stakeholders informed of construction activity, project updates, and listen to and address concerns and questions they may have.

In May, RTC and SNC canvased the Midtown area schedule for the first part of roadway reconstruction. The canvasing included door-to-door outreach with businesses to check-in and inform them of planned construction, the various sources to find information about the project, and outreach activities planned.

Also during this reporting period, the project team continued bi-weekly Virginia Street Project meetings on Thursdays at 9 a.m. at The Saint in Midtown Reno to provide a discussion forum for stakeholders. By partnering with the City of Reno, Sierra Nevada Construction (SNC), local business owners, and community members, these meetings have been an opportunity to discuss how the project is progressing and listen to our stakeholders. Based on feedback from our stakeholders, the meetings will be moving to a biweekly schedule.

The RTC has also continued the weekly project-update videos that started in March to provide the public with visual information in a new format. The videos are posted on social media sites, YouTube, the project website and in our weekly stakeholder updates.

The RTC has continued community outreach and is working with City of Reno staff, and its newly formed Design Review Committee, to proceed with the final design finishes, including seating and bike racks. The Design Review Committee meets on the second Thursday of each month at The Saint, immediately following RTC's outreach meetings.

The community is encouraged to continue to share their positive Midtown experiences on social media using the hashtag #VirginiaStreetProject for an opportunity to receive a gift card to a participating Midtown business.

The project team continues to meet with stakeholders throughout the Midtown corridor, including one-on-one meetings with individual business owners and small groups to provide information about the project, scheduled utility outages, and traffic control.

As part of the Virginia Street project outreach plan, the project team is partnering with participating Midtown businesses who enroll in the Business Patronage Program to help promote, advertise, and market to customers during construction. This includes special events specifically created to encourage the public to visit Midtown. All Midtown businesses are encouraged to enroll. To date, there are 238 businesses enrolled in the program.

Supporting the project team's goal of strong and extensive outreach and community awareness, there have been a number of media stories published and broadcast about the project that illustrate the accessibility to Midtown and progress of construction. Much of the coverage has been positive underscoring construction is not as bad as was expected by many of the businesses, and in some cases business has increased or remained steady. Additionally, the Lyft 50 percent discount up to \$10 has helped transport visitors to Midtown. Project information continues to be communicated weekly through the Project Stakeholder Update, which is electronically distributed to subscribers.



June 5, 2019

AGENDA ITEM 5

TO: Technical Advisory Committee

- **FROM:** Daniel Doenges, PTP, RSP Planning Manager
- SUBJECT: RTC Congestion Mitigation and Air Quality Improvement Program (CMAQ) Project Selection Guidance

RECOMMENDATION

Recommend approval of the Congestion Mitigation and Air Quality Improvement Program (CMAQ) Project Selection Guidance.

SUMMARY

In an effort to provide more transparency, RTC staff has drafted guidance on the CMAQ project selection process to better explain how CMAQ funds are prioritized and programmed. This document identifies eligible uses of CMAQ funds, references past RTC projects that have utilized these funds, describes the projects selection process for all RTC projects, and outlines reporting guidelines for the programming of projects utilizing CMAQ funds. Staff is seeking recommendation of approval of the CMAQ Project Selection document.

Attachments

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THE REGIONAL TRANSPORTATION COMMISSION OF WASHOE COUNTY

CMAQ Project Selection

Guidance on Project Selection for Use of CMAQ Funds in Washoe County

June 2019

This document describes the process and criteria used for prioritizing projects and allocating CMAQ funding within Washoe County.

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Introduction

With passage of the Clean Air Act Amendments of 1990, Congress made great strides in America's efforts to attain National Ambient Air Quality Standards (NAAQS). The 1990 amendments required further reduction in the amount of allowable vehicle tailpipe emissions, initiated more stringent control measures in areas that failed to meet the NAAQS (known as nonattainment areas), and provided for a stronger link between transportation and air quality planning. The Congestion Mitigation and Air Quality Improvement (CMAQ) Program was created in 1991 by transportation legislation known as the Intermodal Surface Transportation Efficiency Act (ISTEA). The CMAQ program was implemented to support surface transportation projects and other related efforts that contribute air quality improvements and provide congestion relief. The program has been reauthorized with each successive transportation bill up to and including the current Fixing America's Surface Transportation (FAST) Act.

State departments of transportation (DOTs) are recipients of CMAQ funds, which are sub-allocated to metropolitan planning organizations (MPOs). MPOs are responsible for the distribution of CMAQ funds to approved projects within their respective planning areas. The Regional Transportation Commission of Washoe County (RTC) is the MPO for the Reno-Sparks Urban Area, and is responsible for selecting projects to receive CMAQ funding in Washoe County.

Eligible Activities

Funds may be used for a transportation project or program that is included in the current Regional Transportation Plan (RTP) and Regional Transportation Improvement Program (RTIP), and is likely to contribute to the attainment or maintenance of a national ambient air quality standard (NAAQS), with a high level of effectiveness in reducing air pollution.

Relevant Project Types

Acceptable types of projects fall under three general categories:

- 1. Capital Projects
- 2. Operating Assistance
- 3. Planning and Project Development

Funds have to be applied directly to a project or program. Operating assistance can only be used for a *new* project for five years, ideally tapering downward in contribution over the five years. The use of CMAQ funds for operating expenses is designed to ease the implementation of projects that may take some time to mature and support themselves at acceptable levels. This type of assistance is most commonly used with new transit services. CMAQ funds may also be used for the planning/project development of a specific project that meets the criteria for their use. CMAQ funds, however, cannot be used for general planning efforts such as major investment studies, commuter preference surveys, transit master plans, etc. Public private partnerships (PPP) projects are permitted to use CMAQ funds as long as the project demonstrates clear benefits to the public in terms of emission reductions.

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In addition, projects must contribute to air quality benefits related to criterion pollutants causing nonattainment or maintenance status for the area. Washoe County currently is designated as a maintenance area for carbon monoxide (CO) and particulate matter less than 10 microns in diameter (PM₁₀). Thus, projects utilizing CMAQ funds should demonstrate a clear relationship between reduction/avoidance of these criterion air pollutants. Figure 1 shows the portion of Washoe County that is currently in maintenance for CO and PM₁₀.

RTC is a regional partner with the Washoe County Health District – Air Quality Management Division (WCHD – AQMD) participating in EPA's Ozone Advance program, which includes voluntary initiatives to improve ozone levels. The initiatives focus on three categories of strategies — technology, behavior, and the built environment. Resolutions supporting the Ozone Advance program have been adopted by the District Board of Health, Board of County Commissioners, City of Reno, City of Sparks, Regional Planning Governing Board, and RTC. This program supports additional transportation options to reduce motor vehicle trips and VMT (vehicle miles traveled) and a clean and efficient motor vehicle fleet mix in Washoe County.

All CMAQ projects must demonstrate the three primary elements of eligibility: transportation identity, emissions reduction, and location in or benefitting a nonattainment or maintenance area. Some examples of eligible activities under CMAQ include:

- 1. Transit investments, including transit vehicle acquisitions and construction of new facilities or improvements to facilities that increase transit capacity
- 2. Alternative fuel projects including participation in vehicle acquisitions, engine conversions, and refueling facilities
- 3. Travel demand management strategies and shared ride services
- 4. Pedestrian and bicycle facilities and promotional activities that encourage bicycle commuting
- 5. Projects that improve traffic flow, such as intersection improvements/ITS infrastructure

Some examples of these types of projects that have been implemented in Washoe County include the establishment and expansion of a bus rapid transit (BRT) system, the purchase of electric buses and charging infrastructure, and the purchase of compressed natural gas (CNG) paratransit vehicles.

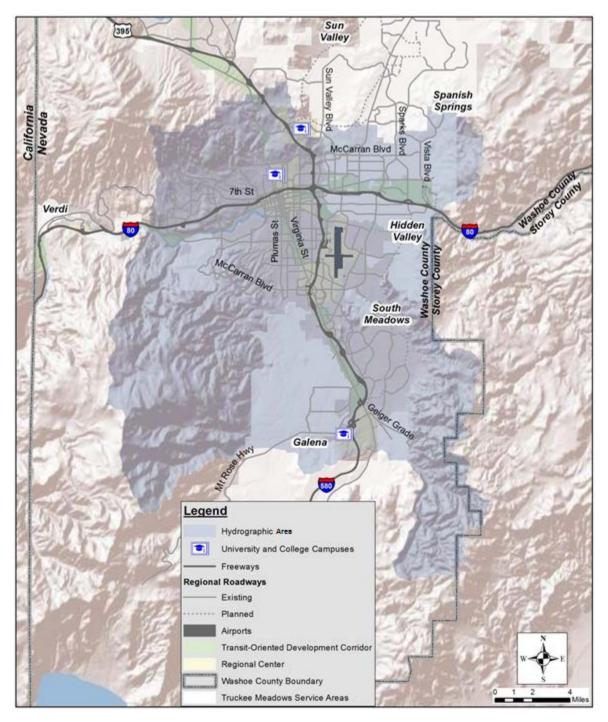
Explicitly ineligible projects include:

- 1. Light-duty vehicle scrappage programs
- 2. Bike share program operations
- 3. Projects that increase single-occupant-vehicle (SOV) capacity
- 4. Routine maintenance and rehabilitation projects
- 5. Stand-alone projects to purchase fuel
- 6. Purchase of transportation models or air quality monitoring equipment
- 7. Litigation costs of Federal-aid (including CMAQ) projects

For additional information, definitive guidance, and program stipulations, please refer to the following link: <u>Congestion Mitigation and Air Quality Improvement (CMAQ) Program</u>

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Figure 1: Washoe County CO and PM₁₀ Maintenance Area



Previous Uses of CMAQ Funds in Washoe County

There are several types of projects that are eligible for the use of CMAQ funding. Funds can be used for programs through either the Federal Highway Administration (FHWA) or Federal Transit Administration (FTA). Flexing funds to the FTA is a common practice nationwide, and an efficient use of the funds in Nevada. When flexed to the FTA, CMAQ funds can free up and leverage other limited FTA funding to provide for larger-scale and more meaningful projects that otherwise might not be feasible. While local sales tax can be used for transit projects, state legislation (Nevada Revised Statutes) prevents the use of local fuel tax revenues from funding transit costs.

CMAQ has funded many critical transportation improvements in Washoe County. Successful local examples include the following projects:

RTC Electric Bus Program

The RTC is a leader in the adoption of electric bus technology. The four electric buses purchased through a TIGGER grant put into service in 2014 have eliminated over 53,000 gallons of diesel fuel use. This improves air quality in the Truckee Meadows providing health benefits to the urban area. RTC purchased 17 all-electric buses in 2017 using CMAQ funds, resulting in about 30% of the fixed route fleet being fully electric. The Villanova Maintenance Facility was expanded and upgraded to better accommodate electric buses. RTC has a goal to transition the entire fixed route fleet to electric vehicles by 2030. CMAQ funds have also been used to construct bus stations to accommodate the electric buses and to purchase CNG vans.

Virginia Street RAPID

This transit project improved frequency of service, reliability, and on-time performance for the most heavily trafficked transit route in Washoe County. With improvements like level boarding stations, low emission hybrid diesel/electric vehicles, and signal priority, passenger travel time and experience has significantly improved. High quality service like this is capable of attracting new riders including those that formerly drove. This results in both air quality and congestion reduction benefits. In addition to these CMAQ qualifying benefits, the project also improves



Figure 2: RAPID Bus at Station

public transportation service, an identified goal of the 2040 Regional Transportation Plan (RTP). The project additionally benefits the community by improving transportation options and mobility options for residents of Washoe County, especially those with limited personal transportation options. CMAQ funds were used to help pay for the first years of operating expense for the Virginia Street RAPID.

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Pyramid/McCarran Intersection Improvement

The intersection of McCarran Boulevard and Pyramid Highway is a major bottleneck for commuters from outlying communities such as Sun Valley and Spanish Springs and a high crash location. During peak commuting hours the intersection had poor levels of service that resulted in motorists idling at the light for long periods. In addition to negatively impacting air quality, this congestion degrades quality of life and causes driver frustration. The Pyramid/McCarran intersection project provided right hand turning pockets, additional left turn lanes, and provided operational improvements on Pyramid Highway. A paved multi-use path was added as part of the project to improve alternative mode accessibility. CMAQ funds were used to pay for capital improvement costs.

Smart Trips Program

The Smart Trips program is an on-going travel demand management (TDM) program that helps parties interested in ride-sharing find carpooling, cycling, walking, or transit partners to share their commute with. Users input their origin and destination addresses, and the program searches the existing database of users for possible matches. The Smart Trips program also includes vanpooling services that benefit commuters with long distance commutes. TDM strategies such as Smart Trips program are cost-effective ways to reduce congestion and confer air quality benefits. By encouraging roadway users to travel in high occupancy vehicles, existing capacity can be used more efficiently. This reduces the cost of roadway maintenance, need for expansion, and the local/community impacts associated with roadway expansion. CMAQ funds are used to pay for ongoing operating expenses of the Smart Trips program.

4th Street/Prater Way Bus RAPID Transit Project

4th St/Prater Way is an innovative and truly multi-modal transportation project that has received acclaim and multiple types of federal funding including Small Starts, TIGER VI, and CMAQ. The project reconstructed the crumbling roadway and sidewalk on 4th Street/Prater Way from the 4TH STREET STATION in downtown Reno to CENTENNIAL PLAZA in downtown Sparks. The project included utility undergrounding and relocation, new pavement, traffic calming,



Figure 3: 4th St/Prater Way Visualization

expanded/improved sidewalks, dedicated bike lanes, and high-quality RAPID bus service. The RAPID service on 4th Street/Prater Way used fully electric, Proterra buses (made in the U.S.A.), with levelboarding stations. This project responds to the existing high-level of alternative mode share on the corridor by renovating the substandard infrastructure to make use of alternative modes safer and more convenient. This roadway is the most significant surface street connection between the city of Sparks and Reno. By improving multi-modal facilities, more travelers will use non-automobile transportation modes on this corridor resulting in air quality improvements. CMAQ funds were used on this project for capital costs.

Project Selection Process

Regional Transportation Plan

The RTC updates the Regional Transportation Plan (RTP) every four years using a performance-based process founded on community input.

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The RTP process incorporates several project selection criteria, including safety, land use compatibility, level of multimodal connectivity and operational improvement, travel demand, and community input. Projects are identified for consideration in the RTP though a variety of ways:

- Previous RTP developed
- Corridor plans and studies such as the North Valleys Multimodal Transportation Study, Reno-Sparks Freeway Study, Short Range Transit Plan, Complete Streets Master Plan, Bicycle-Pedestrian Master Plan, and other corridor plans
- Road Safety Assessments and Safety Management Plans
- Community workshops and other public comments
- Issue-based forums
- Online surveys
- Input from the following throughout development: RTP Agency Working Group, the RTC Citizens Multimodal Advisory Committee (CMAC), RTC Technical Advisory Committee (TAC), and RTC Regional Road Impact Fee Technical Advisory Committee (RRIF TAC).

The manner in which CMAQ funds are programmed addresses all of the Guiding Principles identified in the adopted RTP. Specifically, the electrification of the fixed route transit fleet directly addresses the Guiding Principles in the following way:

- Safe and Healthy Communities A reduction in harmful pollutants improves the air quality for all residents in the Truckee Meadows, and particularly benefits those at higher risk for respiratory conditions.
- Economic Development and Diversification Reliable transit service helps connect residents with employment in the region and can support nearby local business.
- Sustainability Transit, in general, offers a more sustainable transportation alternative to singleoccupancy vehicles. In addition, the electric fleet reduces reliance on unsustainable fossil fuels and utilizes a more affordable energy source to transport riders.
- Increased Travel Choices When combined with safe bicycle and pedestrian infrastructure, transit enhances connectivity within the transportation network, especially for those that are transit-dependent for a variety of reasons.

Once the RTP draft has been completed, a 21-day public comment period is initiated per the RTC Public Participation Plan. During the public comment period, the document is brought before the RTC advisory committees (TAC and CMAC) for final review and to receive a recommendation for adoption by the RTC Board. The public comment period culminates in a public hearing for the document, and it is presented to the Board for adoption. After Board adoption a formal transmittal is sent to NDOT, FHWA, FTA, and EPA for a conformity determination.

Congestion Management Process

An overview of the Congestion Management Process (CMP) evaluation criteria is provided below. These factors are integrated into the RTP project selection process.

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1. Safety: Safety is a guiding principle and goal of the RTP and projects that address safety issues at high crash locations or deficiencies identified through Road Safety Assessments (RSAs) or Safety Management Plans (SMPs) are identified. All RTC projects are designed to appropriate safety design standards. For programmatic investments that include multiple projects, such as traffic signal upgrades and pavement preservation, some of these projects are located in high crash locations while others are not.

2. Land Use Compatibility: The next level of screening is for land use compatibility. The Regional Plan and land use plans of Reno and Sparks identify Transit Oriented Development Districts (TODs) and Regional Centers as locations where the streetscape should be walkable and focus on pedestrian amenities rather than accommodating high speed auto traffic. Locations with school crossings or other areas of high transit and pedestrian activity are noted as being less suitable for roadway widenings.

3. Multimodal Connectivity (Pedestrian & Bicycle): Improving travel choices through multimodal connectivity is another guiding principle of the RTP, and projects are scored on the level of non-motorized capacity they are expected to provide. The evaluation process identifies which projects include bicycle or pedestrian components.

4. Multimodal Connectivity (Transit): Projects are also scored on the level of transit capacity and amenities they are expected to provide. The evaluation process identifies which projects include transit components.

5. ITS/Operational Improvement: Operational improvements, such as traffic signal or fiberoptic communication systems upgrades, are also important investments to improve traffic flow while minimizing the need for new vehicle capacity. The evaluation process identifies which projects include an ITS or operational improvement component.

6. Community Input: The RTP process provides an opportunity for local residents to identify their top transportation priorities. The RTC utilizes several tools such as surveys and public outreach events to allow participants to select the projects that reflect their top priorities. The responses from public outreach are tabulated and included in the project selection process.

7. Traffic Congestion: Results of the regional travel demand model are used to identify which projects address areas of high traffic congestion. The evaluation process identifies which projects are located in areas with existing or forecast traffic congestion, defined as either Level of Service (LOS) E or F in the travel demand model. Following the project screening, RTC staff develops a draft fiscally constrained project listing for review by the RTC Agency Working Group and the RTC advisory committees. After incorporating feedback from these groups, the draft project listing is presented to the RTC Board for approval.

Air Quality Interagency Consultation Working Group

Air quality and transportation agencies regularly consult with each other because joint planning assists both conformity assessments and air pollution reduction efforts. This planning and consultation process is open stakeholders and members of the public.

Consultation is required when the RTC programs transportation improvements through the development of the RTP and RTIP. The RTC consults with all interested agencies, such as the WCHD – AQMD, Nevada Department of Transportation (NDOT), Nevada Division of Environmental Protection (NDEP), U.S. Environmental Protection Agency (EPA), Federal Highway Administration (FHWA), Federal Transit Administration (FTA), and Truckee Meadows Regional Planning Agency (TMRPA) prior to making adopting or amending the RTP or RTIP.

Specific tasks of the of the Air Quality Interagency Consultation Working Group include the evaluation and selection of planning models, methodologies, and assumptions utilized in the analysis of emissions estimates associated with proposed transportation improvements. The Working Group also reviews analysis results to determine that the anticipated emissions resulting from collective transportation improvements do not exceed Motor Vehicle Emissions Budgets (MVEBs) for any of the criteria air pollutants for any given timeframe. This group makes a recommendation regarding conformity of the RTP and RTIP with the NAAQS.

Regional Transportation Improvement Program

Once the draft RTP has been developed, and has been determined to meet air quality conformity by the Interagency Consultation Working Group, the RTIP is updated with the project listing for the first five years of the RTP. It is at this time that the proposed projects are programmed utilizing various funding sources, including CMAQ funds.

As previously stated, the RTIP identifies project and program expenditures and the funds used to implement them. For a project to be considered for the use of CMAQ funds it must meet the following conditions:

- 1. It must be a CMAQ-eligible project based upon the criteria outlined in the Introduction section of this document
- 2. It must be identified in the RTP or further the goals and objectives outlined in the plan
- 3. It must be adopted into the RTIP

Projects should include quantitative estimates of air quality benefits including the gross impact on air quality over the lifetime of the project/program. The method of determining the air quality benefits should be logical and repeatable. Demonstrated methods of calculating air quality impacts for common types of projects are included in Appendix A. The RTC may consult WCHD - AQMD to validate the estimates of air quality impacts of proposed projects.

Based on the input from the public and partner agencies through the process described above, RTC staff makes recommendations on which eligible projects to fund with CMAQ during development of the RTIP. Depending on available funding, project needs, and the prioritization informed by the RTP, the RTC

evaluates the best use of CMAQ funds in relation to performance management and support of the Guiding Principles and Goals of the agency.

RTC staff will evaluate candidate projects based on their cost-effectiveness, support of regional transportation objectives/goals, and additional benefits peripheral to air quality and congestion mitigation, and program them through proposed updates to the RTIP.

Once the RTIP has been updated, a 21-day public comment period is initiated per the RTC Public Participation Plan. During the public comment period, the document is brought before the RTC advisory committees (TAC and CMAC) for final review and receives a recommendation for adoption by the RTC Board. The public comment period culminates in a public hearing for the document, and it is presented to the Board for adoption. After Board adoption a formal transmittal is sent to NDOT, FHWA, FTA, and EPA for a conformity determination.

Figure 2 depicts the process outlined above. It should be noted that either an update or an amendment to the RTP will result in a similar action to the RTIP. However, there are circumstances where an update or an amendment could occur to the RTIP without necessitating an amendment to the RTP. In general, this occurs when projects are added to the RTIP that are exempt from an air quality analysis.

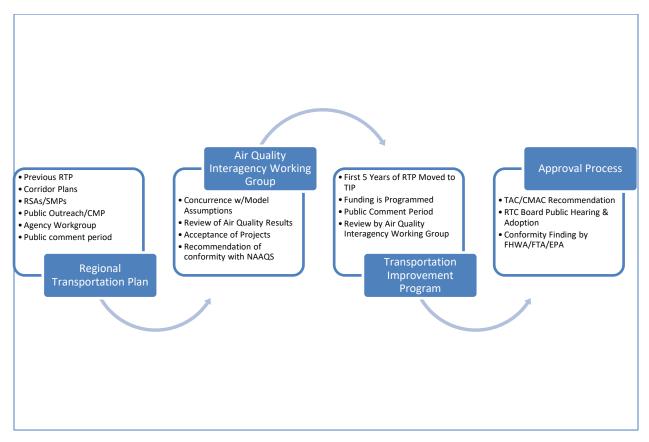


Figure 2: RTC Washoe Project Selection Process

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During Federal Fiscal Year (FFY) 2018, the RTC experienced a permanent reduction in the amount of its annual CMAQ funding allocation. As a result of a policy decision regarding the distribution of CMAQ funds within the state, RTC received over a 45% cut in funds.

The FAST Act continues the legislation authorized under MAP-21, which created a data-driven, performance-based multimodal program to address the many challenges facing the U.S. transportation system. Performance management will lead to more efficient investment of transportation funds by focusing on national transportation goals, increasing accountability and transparency, and improving decision making. The CMAQ project selection process is a component of the RTC performance management program.

One of the noteworthy performance management targets identified in the RTP that the RTC has committed to is to operate a fully-electric, zero-emission, fixed-route transit fleet by 2030. That target is well on its way to being achieved, due in no small part to the flexing of CMAQ funds for electric bus purchases. As of the date of this document, RTC currently has 21 electric buses in service. In addition, the buses have been placed on routes that experience the highest ridership such as the Bus RAPID Transit (BRT) routes that have the most frequent headways. This maximizes their use and realizes the most emissions benefits.

Appendix A provides information regarding established methods of calculating air quality improvements for common types of CMAQ projects. Local emission factors produced by the WCHD - AQMD are included in Appendix B to ensure local relevance. These emission factors should be used in all calculations.

Project benefits should be stated in terms of kilograms per day of emission reduction for all applicable criteria pollutants.

Appendix A – Air Quality Analysis Methodologies

Reporting Guidelines

- Emission benefits should be reported in terms of kilogram/day of pollutants removed
- AADT may be used if time specific data is unavailable
- Submit working calculations for review
- Use the Washoe County specific emission factors for estimates

Common CMAQ Projects

The FHWA Office of Natural Environment has developed a series of tools to provide technical support and resources for the implementation of the CMAQ Program. CMAQ project justification as well as annual reporting require the development of reliable air quality benefit estimates. Realizing that every project sponsor may not have the capacity for developing independent air quality benefit estimates, the FHWA has begun to develop a series of spreadsheet based tools to facilitate the calculation of representative air quality benefit data. The CMAQ Emissions Calculator Toolkit is offered as an additional resource to assist DOTs, MPOs and project sponsors in the project justification process. The RTC may use a preferred methodology to generate air quality benefit information for various project types. The tool kit is being released in modules by project type and the main website can be found at: https://www.fhwa.dot.gov/environment/air_quality/cmaq/toolkit/.

Table B-1

Appendix B – Washoe County Emissions Factors

Air Quality Analysis Support Documentation

Emission Factor (lbs./VMT) for Paved Road Fugitives PM ₁₀								
Facility Type	2015	2020	2025	2030	2035	2040		
Local	0.00081	0.00080	0.00080	0.00080	0.00080	0.00080		
Collector	0.00081	0.00080	0.00080	0.00080	0.00080	0.00080		
Minor	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033		
Major	0.00012	0.00012	0.00012	0.00012	0.00012	0.00012		
Freeway	0.00012	0.00012	0.00012	0.00012	0.00012	0.00012		
Ramps	0.00012	0.00012	0.00012	0.00012	0.00012	0.00012		

NOTES:

- Emission factors for Paved Roads PM₁₀ are calculated from an equation in EPA's AP42, Section 13.2.1, 1/11. The 2015 emission factors are calculated based on actual 2015 climatic data for Reno, whereas the 2020 to 2040 emission factors are calculated based on the 30-year Normal Climate data for Reno from 1981 to 2010.
- Emission factors for On-Road CO and PM₁₀ are not available, they are calculated in MOVES 2014a and the output is generated as total emissions.

VMT by Facility Type by Analysis Year (Hydrographic Area #87)								
Facility Type	2015	2020	2025	2030	2035	2040		
Local	638,992	682,012	716,763	757,082	786,302	815,778		
Collector	210,322	223,128	232,348	236,342	243,186	248,072		
Minor	698,575	747,067	788,370	833,160	859,981	891,318		
Major	1,317,781	1,484,768	1,563,816	1,582,074	1,652,137	1,716,468		
Freeway	2,308,412	2,395,702	2,517,715	2,737,759	2,847,243	2,964,986		
Ramps	449,826	469,855	489,370	516,828	531,565	543,216		
Total	5,623,909	6,002,532	6,308,382	6,663,244	6,920,414	7,179,839		

Table B-2 /MT by Facility Type by Analysis Year (Hydrographic Area #87)

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Table B-3 Emissions (lbs./day)

Analysis Year	со	On-Road Vehicles PM ₁₀	Diesel Idling PM ₁₀	Paved Road Fugitive PM ₁₀	Unpaved Road Fugitives PM ₁₀	Road Construction PM ₁₀	Total PM ₁₀ Emissions
2015	73,274	1,111	26	1,320	1,423	191	4,071
2020	54,331	945	19	1,493	1,733	206	4,395
2025	42,308	839	14	1,608	2,019	215	4,695
2030	33,721	789	11	1,622	2,310	223	4,955
2035	29,587	791	10	1,712	2,597	229	5,339
2040	28,354	819	10	1,731	2,886	235	5,681



June 5, 2019

AGENDA ITEM 6

TO: Technical Advisory Committee

FROM: Daniel Doenges, PTP, RSP Planning Manager

SUBJECT: Regional Transportation Improvement Plan (RTIP) Amendment No. 3

RECOMMENDATION

Recommend approval of the proposed Amendment No. 3 to the Regional Transportation Improvement Plan (RTIP).

SUMMARY

RTC staff is proposing Amendment No. 3 to the RTIP due to a proposed change by the Nevada Department of Transportation (NDOT) of the funding source for the Spaghetti Bowl Express (SBX) project. The project is currently programmed with approximately \$132,000,000 in state funds, but the majority will be replaced with federal funds; including Surface Transportation Block Grant (STBG) and National Highway Performance Program (NHPP) funds. An air quality analysis for the proposed amendment is not required as the change is to the funding source of an existing project that has already been determined to meet transportation conformity.

As a component to this amendment, the RTC is also considering programming STBG funds for the purchase maintenance vehicles for the Cities of Reno and Sparks to perform debris/snow removal on existing and planned off-street and separated bicycle and pedestrian facilities such as multi-use paths and cycle tracks.

The public comment period for the amendment is scheduled to begin on June 27, and will close on July 18. A public hearing will be held at the RTC Board meeting on July 19.

Attachment

Amendment 19-04 RTC Washoe Transportation Improvement Program Fiscal Year 2018-2022

		e Entrance to EB I 80. Widen EB I 80 to S	B I 580 Ramp to	o 2 Ianes. Wide	n I 580 SB to 3 la	nes. Rehab/Re	place 7 Bridges	s. Add	
sound w								TCM: Yes NDOT: District	
Project Type: Rd Impro	ovement								
County: Washoe		Limits: From I 80 to Mill Street Intercha	ange of Distanc	e (mile) 1.27 Mi	lepost begins at 2	24.47 ends at 2	5.74		
	FED FY	Revenue Source	PE	ROW	CON	OTHER	TOTAL		
	2019	Local Fund	\$0	\$0	\$30,000,000	\$0	\$30,000,000		
	2019	NHPP	\$0	\$0	\$7,363,426	\$0	\$7,363,426		
	2019	NHPP AC	\$0	\$0	\$81,136,574	\$0	\$81,136,574	-	
	2019	STBG State-Wide	\$0	\$0	\$11,000,000	\$0	\$11,000,000		
	2019	STBG State-Wide AC	\$0	\$0	\$14,500,000	\$0	\$14,500,000		
	2019	State Gas Tax	\$5,000,000	\$7,000,000	\$0	\$0	\$12,000,000		
	2019	State Match - Nv	\$0	\$0	\$6,000,000	\$0	\$6,000,000		
		2019-2023 TOTAL	\$5,000,000	\$7,000,000	\$150,000,000	\$0	\$162,000,000	-	
		ALL YEARS TOTAL	\$5,000,000	\$7,000,000	\$150,000,000	\$0	\$162,000,000		