

**Summary Minutes of the HRTPO Transportation
Technical Advisory Committee (TTAC) Meeting
September 6, 2017**

The HRTPO Transportation Technical Advisory Committee (TTAC) Meeting was called to order at 9:36 a.m. in the Regional Building Boardroom, 723 Woodlake Drive, Chesapeake, Virginia, with the following in attendance:

TTAC Voting Members in Attendance:

Paul Holt (Chair, JC)	Bryan Stilley (NN)	Jitender Ramchandani (DRPT)
Sherry Earley (Vice Chair, SU)	Robert Brown (NO)	Jamie Jackson (HRT)
Benjamin Camras (CH)	Jeff Raliski (NO)	Dawn Odom (VDOT)
Steve Froncillo (CH)	Susan Wilson (PO)	Eric Stringfield (VDOT)
Donald Goodwin (FR)	Dannan O'Connell (PQ)	Sonya Hallums-Ponton (VDOT)
Garrey Curry (GL)	Beth Lewis (SH)	Jeff Florin (VPA)
Mike Hayes (HA)	LJ Hansen (SU)	Josh Moore (WATA)
John Yorks (HA)	Robert Lewis (SU)	
Angela Rico (Alternate, HA)	Robert Grey (VB)	
Richard Rudnicki (IW)	Phil Pullen (VB)	
Jamie Oliver (IW)	Brian Solis (VB)	
Tammy Rosario (JC)	Tim Cross (YK)	
Jackie Kassel (NN)	Carolyn Murphy (WM)	

TTAC Voting Members Absent:

Earl Sorey (CH)	Ellen Roberts (PQ)
Anne Ducey-Ortiz (GL)	Debbie Vest (PQ)
Lynn Allsbrook (HA)	James Wright (PO)
Dennis Carney (IW)	Dan Clayton III (WM)
Britta Ayers (NN)	Aaron Small (WM)
Claudia Cotton (Alternate, NN)	J. Mark Carter (YK)
Thelma Drake (NO)	

TTAC Nonvoting Members in Attendance:

Rhonda Murray (NAVY)

TTAC Nonvoting Members Absent:

Melissa McGill (FTA)	Ivan Rucker (FHWA)
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HRTPO Staff:

Sam Belfield

Sam Braden

Theresa Brooks

Rob Case

Shirley Core

Kathlene Grauberger

Mike Kimbrel

John Mihaly

Kendall Miller

Keith Nichols

Leonardo Pineda

Camelia Ravanbakht

Dale Stith

Others Recorded Attending:

Ken Yarberry, (RKK); Lui Zukosky, (Michael Baker International); Keisha Branch, (HRT); Karen McPherson, (McPherson Consulting); Bob Mathias, Katie Shannon, Tara Reel, (VB); Jerry Pauley, Carl Jackson, Shaneka Barksdale, Caleb Brooks, Angela Biney, Ray Hunt, (VDOT); Jordan Pascale, (Va Pilot); Greg Grootendorst, Matt Smith, Chris Vaigneur (HRPDC Staff).

Introductions

Mr. John Yorks, introduced Mr. Michael Hayes, City of Hampton Planning and Zoning Administration Manager and welcomed him to the TTAC committee. Dr. Ravanbakht, announced her retirement effective February 1, 2018. She thanked the members of the TTAC for their professionalism and passion for transportation projects in the region.

Public Comment Period

There were no public comments.

Submitted Public Comments

There were no submitted public comments in the agenda packet.

Comments and Updates from State and Federal Agencies and the Military

There were no comments from the Federal Highway Administration.

Ms. Odom, stated VDOT staff are working on Urban Consolidation for formula funding. As of January 1, 2018 the funds go into State of Good Repairs Program unless on an active project. Ms. Hallums-Ponton, noted VDOT staff is working towards all transfers being identified by the first week of October. She stated if localities are planning to create new projects VDOT needs information on projects including scope, schedule and budget by September 18, 2017 to coordinate with VDOT's central office. She stated VDOT staff continues to work on final balances and that localities should have them in the next two weeks. Ms. Odom announced staff prepared a one-page FAQ handout that

will be available in the lobby after the meeting. One of the constraints for new projects is that the CTB does not meet in November so localities only have October and December if a locality needs to add a project to the Six Year Improvement Program. Ms. Hallums-Ponton announced VDOT will hold a Local Program workshop on Sept 13, 2017. Mr. Eric Stringfield announced there would be a SMART SCALE workshop this afternoon.

There were no comments from DRPT.

There were no comments from the Port.

There were no comments from the Navy.

Approval of Agenda

Chair Holt asked for additions or deletions to the TTAC Agenda. Hearing none, Mr. Stillely MOVED to approve the agenda; seconded by Mr. Gey.

Summary Minutes

Chair Holt reported the TTAC summary minutes from the July 12, 2017 meeting were included in the October 2017 TTAC Agenda Packet. Chair Holt asked for any additions or corrections to the minutes. Ms. Susan Wilson, noted she was marked absent at the July TTAC meeting however, she was present. Mr. Cross Moved to approve the minutes; seconded by Mr. Florin The Motion Carried.

FY 2015-2018 TIP REVISION – RSTP TRANSFER REQUESTS

Mr. Mike Kimbrel, HRTPO Principal Transportation Engineer stated that as a result of excess Regional Surface Transportation Program (RSTP) funding on a completed project being returned to the HRTPO RSTP Reserve Account in April, there is currently \$674,656 in FY 2012 funds available to allocate to current RSTP projects. Since it is important to get older funds obligated and expended as soon as possible, in the agenda for the Transportation Programming Subcommittee (TPS) meeting on July 21, 2017, HRTPO staff requested that members review their current RSTP projects and notify HRTPO staff by August 4, 2017 of any projects that could benefit by an allocation of FY 2012 RSTP funds. The following requests were received:

- Elbow Road Extended Phase II (UPC 15828) in Virginia Beach
 - Funding Request: \$500,000 transfer from RSTP Reserve Account
 - Funds would be used to advance design of the second phase (Phase IIC) of the overall project. The Preliminary Engineering (PE) phase is currently slated to begin in FY 2022, so the additional funding would advance the phase by four years. The City has a firm currently under contract, so would be able to obligate the funds immediately

and issue a work order to begin design for Phase IIC as soon as the funds are available.

- Turner Drive/Benns Church Boulevard Intersection Improvements (UPC 103021) in Isle of Wight County
 - Funding Request: \$117,073 transfer from RSTP Reserve Account
 - The project currently shows a construction shortfall of \$117,073. Construction advertisement is scheduled for January-February 2018 and construction is expected to begin in Spring 2018.

HRTPO staff has recommended that the remaining \$57,583 in FY 2012 funds in the RSTP Reserve Account be allocated to the following project:

- Purchase 40-foot Replacement Buses (UPC T11778) – Hampton Roads Transit
 - The project is not fully-funded and could obligate the funding quickly.
 - HRT concurs with the recommendation of HRTPO staff.

Should the HRTPO Board approve the RSTP fund transfers described above, the FY 2015-2018 Transportation Improvement Program (TIP) will be amended to update the funding information associated with the affected projects. This request has been made available for public review and comment from August 30, 2017 through September 13, 2017.

Mr. Pullen Moved to recommend HRTPO Board approval of the RSTP Transfer Request; seconded by Mr. Lewis. The Motion Carried.

FY 2015-2018 TIP REVISION – RSTP TRANSFER REQUEST

Ms. Dawn Odom, VDOT Hampton Roads District Planning and Investment Manager, requested to transfer a total of \$1,000,000 in Regional Surface Transportation Program (RSTP) funds from one canceled project to the HRTPO RSTP Reserve Account. The specifics of the request are described below:

- Route 58 Lane Reversal Study (UPC 95050) in Suffolk and Chesapeake
 - Project canceled
 - Transfer \$1,000,000 FY 2011 RSTP allocation to HRTPO RSTP Reserve Account

Should the HRTPO Board approve the RSTP fund transfer described above, the FY 2015-2018 Transportation Improvement Program (TIP) will be amended to update the funding information associated with the project. This request has been made available for public review and comment from August 30, 2017 through September 13, 2017.

Mr. Moore Moved to recommend HRTPO Board approval of the RSTP Transfer Request; seconded by Mr. Stringfield. The Motion Carried.

FY 2015-2018 TIP AMENDMENT – UPC 65655

Mr. Eric Stringfield, VDOT Hampton Roads District Transportation Planning Director, requested to revise information related to one project in the FY 2015-2018 Transportation Improvement Program (TIP). The specifics of the request are described below:

Turnpike Road Reconstruction (UPC 65655) in Portsmouth

- Revise cost estimate:
 - Construction phase: \$32,020,000
 - Total cost: \$32,020,000
- Remove all FY 2015 Construction (CN) Phase Obligations
- Add Previous CN Phase Obligation of \$2,000,000 Regional Surface Transportation Program (RSTP) funds, plus \$500,000 Match
- Add Previous CN Phase Obligation of \$5,342,593 Surface Transportation Program (STP)/Surface Transportation Block Grant (STBG) funds, plus \$2,210,593 Match
- Add FY 2017 CN Phase Obligation of \$1,284,089 RSTP funds, plus \$321,022 Match
- Add FY 2017 CN Phase Obligation of \$11,291,058 STP/STBG funds
- Add FY 2017 CN Phase Obligation of \$6,870,647 Advance Construction (AC) Other funds

The significant cost increase (from \$22,453,000 to \$32,020,000) is related to encountering more petroleum contaminated groundwater that needed to be managed/disposed of/remediated than initially estimated to be present.

This request has been made available for public review and comment from August 30, 2017 through September 13, 2017.

Mr. Florin Moved to recommend HRTPO Board approval of the TIP Amendment; seconded by Ms. Wilson. The Motion Carried.

FY 2015-2018 TIP AMENDMENT – UPC 106692

Mr. Eric Stringfield, VDOT Hampton Roads District Transportation Planning Director, requested to revise information related to one project in the FY 2015-2018 Transportation Improvement Program (TIP). The specifics of the request are described below:

- I-64 Southside Widening and High Rise Bridge – Phase 1 (UPC 106692) in Chesapeake

- Revise Hampton Roads Transportation Accountability Commission (HRTAC) allocations as follows:
 - FY 2015 - \$2,857,143
 - FY 2016 - \$11,428,572
 - FY 2017 - \$5,714,285
 - FY 2018 - \$21,802,794
 - FY 2019 - \$166,595,282
 - FY 2020 - \$129,618,343
 - FY 2021 - \$161,983,581
 - Total (FY 2015 – FY 2021) = \$500,000,000

- Add State/Federal Allocations: High Priority Projects (HPP) GARVEE as follows:
 - FY 2017 - \$32,133,168
 - FY 2018 - \$22,064,038
 - FY 2019 - \$3,404,718
 - FY 2020 - \$40,381,657
 - FY 2021 - \$1,849,715
 - FY 2022 - \$166,704
 - Total (FY 2017 – FY 2022) = \$100,000,000
- Add FY 2015 Preliminary Engineering (PE) Phase Obligation of \$6,666,668 Other funds
- Add FY 2016 PE Phase Obligation of \$13,333,332 Other funds
- Add FY 2017 Right of Way (RW) Phase Obligation of \$42,000,000 Other funds
- Add FY 2018 Construction (CN) Phase Obligation of \$3,497,344 National Highway System (NHS)/National Highway Performance Program (NHPP) funds
- Add FY 2018 CN Phase Obligation of \$204,000,000 Other funds
- Add FY 2018 CN Phase Obligation of \$96,502,656 Advance Construction (AC) funds

This request has been made available for public review and comment from August 30, 2017 through September 13, 2017.

Mr. Pullen Moved to recommend HRTPO Board approval of the TIP Amendment; seconded by Mr. Yorks. The Motion Carried.

FY 2015-2018 TIP AMENDMENT – UPC 111982

Mr. Eric Stringfield, VDOT Hampton Roads District Transportation Planning Director, requested to add a new project to the FY 2015-2018 Transportation Improvement Program (TIP). The specifics of the request are described below:

- I-64 Southside Widening and High Rise Bridge – Phase 1 – GARVEE Debt Service (UPC 111982) in Chesapeake

- Add new project to TIP
- Description: Debt Service related to UPC 106692
- Add Preliminary Engineering (PE) cost estimate: \$35,467,975
- Add PE schedule – Start: 3/15/18; End 9/15/36
- Add FY 2018 Allocation of \$2,666,518 National Highway Performance Program (NHPP) funds, plus \$666,629 Match
- Add FY 2018 Preliminary Engineering (PE) Phase Obligation of \$1,916,777 National Highway System (NHS)/NHPP funds
- Add FY 2018 PE Phase Obligation of \$33,551,198 Advance Construction (AC)

This request has been made available for public review and comment from August 30, 2017 through September 13, 2017.

Mr. Cross Moved to recommend HRTPO Board approval of the TIP Amendment; seconded by Mr. Moore. The Motion Carried.

FY 2015-2018 TIP AMENDMENT – UPC 111427

Mr. Eric Stringfield, VDOT Hampton Roads District Transportation Planning Director, requested to add a new project to the FY 2015-2018 Transportation Improvement Program (TIP). The specifics of the request are described below:

- Bowers Hill Interchange (PE Only) (UPC 111427) in Chesapeake
 - Add new project to TIP
 - Description: Study purpose is to identify short term and long term operational improvements to the I-64/I-264/I-664 and Route 58/460 interchange at Bowers Hill.
 - Add Preliminary Engineering (PE) cost estimate: \$4,000,000
 - Add PE schedule – Start: 10/2/17; End 2/10/21
 - Add FY 2018 Allocation of \$1,640,000 Hampton Roads Transportation Accountability Commission (HRTAC) funds
 - Add FY 2019 Allocation of \$1,950,000 HRTAC funds
 - Add FY 2020 Allocation of \$410,000 HRTAC funds
 - Add FY 2017 Preliminary Engineering (PE) Phase Obligation of \$4,000,000 Advance Construction (AC) Other

This request has been made available for public review and comment from August 30, 2017 through September 13, 2017.

Mr. Lewis Moved to recommend HRTPO Board approval of the TIP Amendment; seconded by Mr. Moore. The Motion Carried.

FY 2015-2018 TIP AMENDMENT - 12 PROJECTS

Ms. Jamie Jackson, HRT Director of Transit Development, requested to add two projects to the FY 2015-2018 Transportation Improvement Program (TIP) and adjust the funding on ten other projects to align the TIP project information with the updated HRT Capital Improvement Plan. The specifics of the request are described below:

- Shop Equipment (HRT0006)
 - **Add project to TIP** with following FY 2018 obligations:
 - \$48,960 FTA 5307 funds
 - \$9,792 State funds
 - \$2,448 Local funds

- Light Rail Systems State of Good Repair (SGR) (HRT0103)
 - **Add project to TIP** with following FY 2018 obligations:
 - \$168,300 FTA 5307 funds
 - \$513,623 FTA 5337 funds
 - \$309,828 State funds
 - \$41,311 Local funds

- Support Vehicles (HRT0004)
 - Add FY 2018 obligation of \$78,766 Federal Transit Administration (FTA) 5337 funds
 - Delete FY 2018 obligation of \$75,000 FTA 5307 funds
 - Decrease FY 2018 State obligation by \$247
 - Decrease FY 2018 Local obligation by \$62

- Ferry Capital Improvements (HRT0022)
 - Delete all FY 2015 obligations
 - Delete all FY 2016 obligations
 - Add FY 2018 obligation of \$3,183,201 FTA Discretionary Passenger Ferry (DPF) funds
 - Add FY 2018 obligation of \$1,382,482 State funds
 - Add FY 2018 obligation of \$263,676 Local funds

- Replacement Rolling Stock (HRT0026)
 - Add FY 2018 obligation of \$514,647 FTA 5307 funds
 - Add FY 2018 obligation of \$1,257,393 FTA 5339 Discretionary funds
 - Decrease FY 2018 FTA 5339 obligation by \$1,419,537
 - Increase FY 2018 State obligation by \$806,094
 - Increase FY 2018 Local obligation by \$52,606

- Automated Data Processing (ADP) Software (HRT0032)
 - Decrease FY 2018 FTA 5307 obligation by \$1,631,755
 - Add FY 2018 obligation of \$627,300 FTA 5337 funds
 - Decrease FY 2018 State obligation by \$233,911
 - Decrease FY 2019 Local obligation by \$51,478
- Preventive Maintenance (HRT0054)
 - Add FY 2018 obligation of \$1,529,205 FTA 5309 funds
 - Add FY 2018 obligation of \$1,679,165 FTA 5337 funds
 - Add FY 2018 obligation of \$999,237 State funds
 - Add FY 2018 obligation of \$758,009 Local funds
- Rehabilitation/Renovation of Administrative & Maintenance Facility (HRT0082)
 - Delete FY 2018 obligation of \$77,000 FTA 5309 funds
 - Add FY 2018 obligation of \$1,099,470 FTA 5307 funds
 - Increase FY 2018 State obligation by \$597,978
 - Increase FY 2018 Local obligation by \$388,811
- TRAFFIX Program (UPC T14104)
 - Delete all FY 2016 obligations
 - Increase FY 2018 CMAQ obligation by \$789,202 (total = \$1,578,404)
 - Increase FY 2018 State Match obligation by \$197,301 (total = \$394,602)
- Transit Bus Mid-Life Overhaul/Repower (HRT0090)
 - Add FY 2018 obligation of \$192,780 FTA 5307 funds
 - Add FY 2018 obligation of \$468,180 State funds
 - Add FY 2018 obligation of \$27,540 Local funds
- Ferry Boat Construction (HRT0096)
 - Decrease FY 2015 FTA DPF obligation by \$400,000
 - Decrease FY 2015 State obligation by \$3,199,572
 - Decrease FY 2015 Local obligation by \$149,857
 - Add FY 2018 obligation of \$1,240,000 FTA DPF funds
 - Add FY 2018 obligation of \$3,011,428 State funds
 - Add FY 2018 obligation of \$177,143 Local funds
- Passenger Information System (HRT0100)
 - Delete all FY 2015 obligations
 -

This request has been made available for public review and comment from August 30, 2017 through September 13, 2017.

Mr. Stringfield Moved to recommend HRTPO Board approval of the Tip Amendment; seconded by Mr. Solis. The Motion Carried.

Hampton Roads Annual Roadway Performance Report: Final

Dr. Camelia Ravanbakht, HRTPO Deputy Executive Director, explained this report is updated annually and was presented at the July TTAC meeting. She noted comments that were received were incorporated into the final document.

Mr. Moore Moved to recommend HRTPO Board approval of the final report; seconded by Mr. Cross. The Motion Carried.

Hampton Roads 2040 Rural Long-Range Transportation Plan: Final

Dr. Camelia Ravanbakht, HRTPO Deputy Executive Director, noted TPO staff worked with Ms. Beth Lewis, Southampton County and Mr. Donald Goodwin, City of Franklin to develop the 2040 Rural Long-Range Transportation Plan. She noted the plan had undergone a public comment period. Ms. Beth Lewis also noted the interchange study was added to the plan.

Ms. Murphy Moved to recommend HRTPO Board approval of the Hampton Roads 2040 Rural Long-Range Transportation Plan; seconded by Ms. Oliver. The Motion carried.

Identifying Candidate Streets for Conversion from One-Way to Two-Way: Final

Dr. Camelia Ravanbakht, HRTPO Deputy Executive Director stated this report was for Norfolk, Newport News, and Hampton. She stated the report has gone through public comment period and comments received were incorporated. She thanked VDOT for the comments they submitted.

Mr. Moore Moved to recommend HRTPO Board approval of the Identifying Candidate Streets for Conversion from One-Way to Two-Way; seconded by Mr. Stringfield. The Motion carried.

Unified Planning Working Program

Dr. Camelia Ravanbakht, HRTPO Deputy Executive Director, stated an amendment was needed to add a few items to the current work program. The UPWP was prepared around the January-February timeframe in order to be ready for approval by Board in March. This amendment addresses the following changes:

1. Addition of Task 9.11. The Military Transportation Needs Study Update was originally anticipated to be completed during FY 2017. However, due to significant work still necessary to complete the study, it has been added to the FY 2018 UPWP as Task 9.11.

2. The budget for Task 11.8, Hampton Roads Transit Development Plan, has been increased to account for \$33,771 in Federal Transit Administration (FTA) Section 5303 funds being carried over from FY 2017.
3. Due to significant HRTPO staff time being allocated to the Hampton Roads Crossing Study (HRCS) Supplemental Environmental Impact Statement (SEIS) Additional Feasibility Studies project, funded with Hampton Roads Transportation Fund (HRTF) monies, plus the addition of Task 9.11 mentioned above, the budgets for a number of FY 2018 UPWP tasks need to be revised. An attached table showed the original PL and revised PL budgets, and the differences between the two, for each task in the UPWP. The FTA Section 5303 budgets associated with some of the tasks were not changed.

Mr. Gey Moved to recommend HRTPO Board approval of the FY 2018 Unified Planning Work Program Amendment; seconded by Mr. Stringfield. The Motion carried.

2017 CMAQ/RSTP Project Selection Process -

Mr. Mike Kimbrel, HRTPO Principal Transportation Engineer, briefed the committee on the 2017 CMAQ/RSTP project selection process. He noted the HRTPO is responsible for project selection and funding allocations for the CMAQ/RSTP. He stated CMAQ provides federal funding for projects that primarily help improve air quality and RSTP provides federal funding for a wide variety of projects. FY 24 mark versus penciled in request for CMAQ is as follows the mark is \$14,243,448 with revised penciled in requests totaling \$13,911,525 leaving a revised balance of \$331,923. The RSTP mark is \$35,645,134 with revised penciled in requests of \$33,314,126 leaving a revised balance of \$2,331,008. Given that little funding remains to allocate to new projects the Transportation Programming Subcommittee recommends:

1. Applications for new CMAQ and/or RSTP projects not be accepted this year.
2. FY 2024 CMAQ and RSTP funding be allocated to the previously approved projects per the penciled-in request.
3. Remaining FY 2024 funds be allocated to the HRTPO CMAQ and RSTP Reserve Accounts.

Mr. Kimbrel stated the recommended action is HRTPO Board approval of the FY 2024 CMAQ and RSTP projects and allocations as shown in Tables 1 and 2.

Mr. Curry Moved to recommend HRTPO Board approval of the FY 2024 CMAQ and RSTP projects and allocations; seconded by Ms. Kassel. The Motion carried.

The State of Transportation in Hampton Roads 2017: Draft

Mr. Keith Nichols, HRTPO Principal Transportation Engineer, presented the draft version of the State of Transportation 2017 in Hampton Roads. He stated the State of Transportation report includes information on all facets of the Hampton Roads transportation system. The report is released annually as a part of the HRTPO Congestion Management Process and Performance Management efforts. Looking at the data, trends are improving in the region. Airports had seen decreases annually since the peak in 2007. In 2016, 1.8 million travelers boarded aircraft and continuing into 2017 losses are trending the other direction. Passenger Rail saw a slight decrease but in comparison to the last decade rail has increased about 53 per cent in 2016. The Port had a record 2016 in terms of the amount of tonnage, 21 tons of general cargo in 2016 with 2017 expecting to be another banner year. Bridge conditions improved greatly, in 2015 over 80 bridges were deficient in 2016 that number is down to 64 bridges. He reported only 7 percent of VDOT maintained pavement was classified as poor condition. This is the best of any regions in the State. Roadway travel saw a 5% increase based on 70 continuous count stations and is still growing on pace to set a record in 2017. Transit usage is going down in the region, peaked in 2012 but has decreased every year since. This is a national trend with Uber and Lyft being among contributing factors. Roadway safety crashes are increasing however the number of fatalities has not increased. State legislation report is now included in the State of Transportation report. He also mentioned the Federal performance measures will also be included in this report.

The draft version will be open for public review and comment until September 22 nd with approval of the final document being requested at the October TTAC and TPO Board meetings.

Map-21/FAST Act Performance Measures and Targets

Mr. Keith Nichols, HRTPO Principal Transportation Engineer, explained the Moving Ahead for Progress in the 21st Century (Map-21) surface transportation legislation established performance and outcome-based program. As a part of this program, Map 21 (and the FAST act) requires that States and Metropolitan Planning Organizations (MPOs) prepare and use a federally-established performance measures. He noted states with MPOs must also set targets and monitor progress for each of these performance measures and TPO staff will work in cooperation with the TTAC to produce these targets. He requested to establish a Performance Measure and Targets Working Group and the following members agreed to participate:

Bryan Stilley (NN)	Jeff Florin (VPA)
Steve Froncillo (CH)	Dwight Jenkins (DMV)
James Wright (PO)	
LJ Hansen (SU)	
Keisha Branch (HRT)	
Eric Stringfield (HRT)	
Derrick Snowden (HRT)	

Connected and Automated Vehicles – Implications for Planning and Operations

Ms. Cathy McGee, P.E., Virginia Transportation Research Council Director of Research, presented research data regarding connected and automated vehicle implications for planning and operations. She stated planners tend to think in terms of what changes will be seen in the next twenty years and how those changes will affect planning assumptions. She defined a connected car as one that shares information from vehicle to vehicle or vehicle to roadway. Vehicle to vehicle communications or vehicle to infrastructure communications can send information to increase situational awareness and allow drivers to make more informed decisions. Vehicle to vehicle communication primarily provides a safety application which assists with collision avoidance and blind spot warnings. Vehicle to infrastructure communication assists with mobility and helps move vehicles through the network more efficiently. Queue detection technology notifies a vehicle if there is a slowdown and can send a broadcast to prevent last minute heavy braking. She listed implications of connected vehicle deployment to include safety Vehicle to vehicle communication alone may address up to 81% of crashes involving unimpaired drivers, may improve traffic flow and reduce delays, and may reduce CO2 and fuel consumption by 11 percent. She stated VDOT is taking an evolutionary approach with focus on implementation from the beginning, targeting existing challenges with new technology-based solutions and supporting private development with minimal regulation.

FY 2015-2018 TIP: Quarterly Snapshot

Kathlene Grauberger, HRTPO Transportation Planner, provided a TIP update for the fourth quarter of 2017. She briefed the committee on projects with significant construction, highlighting the I-64 Peninsula Widening Segments 1 and 2 Projects. She also informed the committee of two projects with first expenditures in construction (April- May 2017) - the Courthouse Highway intersection at Foursquare Road, Isle of Wight for \$636,492 and I-64 Northampton Boulevard Interchange modification \$3,460 located in Norfolk. She reported the regional priority projects total expenditures as of May 2017 are 1-64/I-264 Interchange Phase 1 total cost \$157 million, total expenditures \$7 million; I-64/I-264 Interchange Improvements Phase II total cost \$190 million, with total expenditures of \$14 million; I-64 Southside Widening and High-Rise Bridge Phase I total cost \$600 million total expenditures \$10 million. She reported there are 35 Active CMAQ/RSTP projects with no expenditures in the past two quarters (Jan-May 2017) consisting of 2 cancelled projects, 26 completed projects awaiting financial close, 6 projects delayed and 1 project with work ongoing to be billed. Next steps include coordination with CMAQ and RSTP project sponsors to determine the reason for stalled projects and how to get them moving and whether funds should be reallocated to other projects.

Three-Month Tentative Schedule

Chair Holt outlined the Three-Month Tentative Schedule in the Agenda Packet.

For Your Information

Chair Holt reviewed the items in the For Your Information section of the Agenda Packet.

Announcements

Dr. Ravanbakht, announced the SEIS Additional Feasibility Studies working group would meet on Friday, September 15. She also noted the HRTPO Board meeting would be combined with HRTAC, HRPDC and HRMFFA on September 21. The TPO meeting will start at 9:30am and the meeting will be held on the Peninsula at the Hampton Roads Convention Center.

Old/New Business

None

Adjournment

With no further business to come before the Hampton Roads Transportation Technical Advisory Committee, the meeting adjourned at 11:07 a.m.