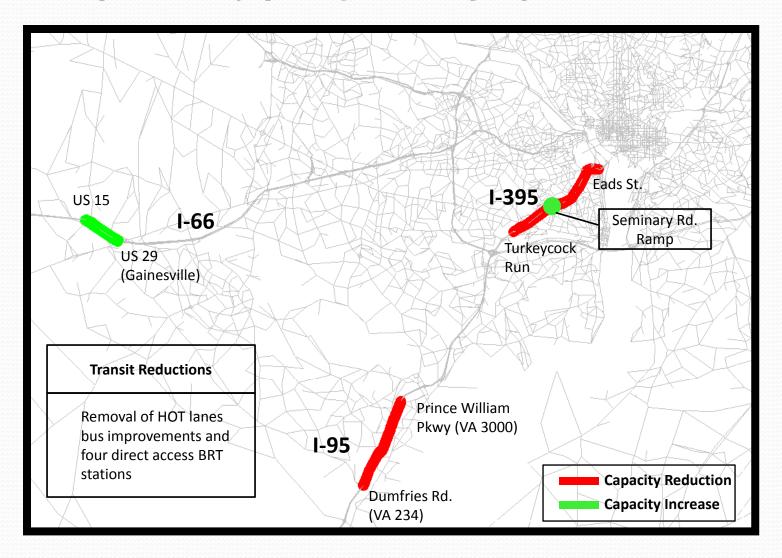
#### AIR QUALITY CONFORMITY ASSESSMENT

#### VIRGINIA DEPARTMENT OF TRANSPORTATION 2011 CLRP AND FY2011-16 TIP AMENDMENTS

TPB Technical Committee
June 3, 2011

#### MAP OF MAJOR CHANGES



# **PROJECTS**

# I-66

Extension of the existing HOV/SOV lanes for 2.6 miles on I-66 between US 29 in Gainesville and Route 15 in Haymarket to provide 8 lanes including HOV.

# **PROJECTS**

# I-95/I-395

- ❖ Removal of HOV to HOT lane conversion and construction of 3<sup>rd</sup> lane from Turkeycock Run (n. of Edsall Rd.) to Eads St. (7.5 miles)
- Removal of construction of 3<sup>rd</sup> HOT lane from VA 234 (Dumfries Rd.) to VA 3000 (Prince William Pkwy.) (6 miles)
- ❖ Removal of I-95/I-395 HOT lanes bus improvements, including 4 direct access BRT stations along the facility
- ❖ Addition of a reversible ramp from the HOV lanes of I-395 to/from Seminary Rd.

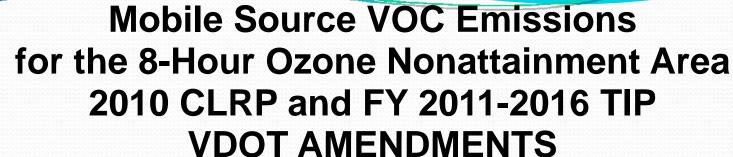
# TECHNICAL APPROACH (same as for original 2010 CLRP)

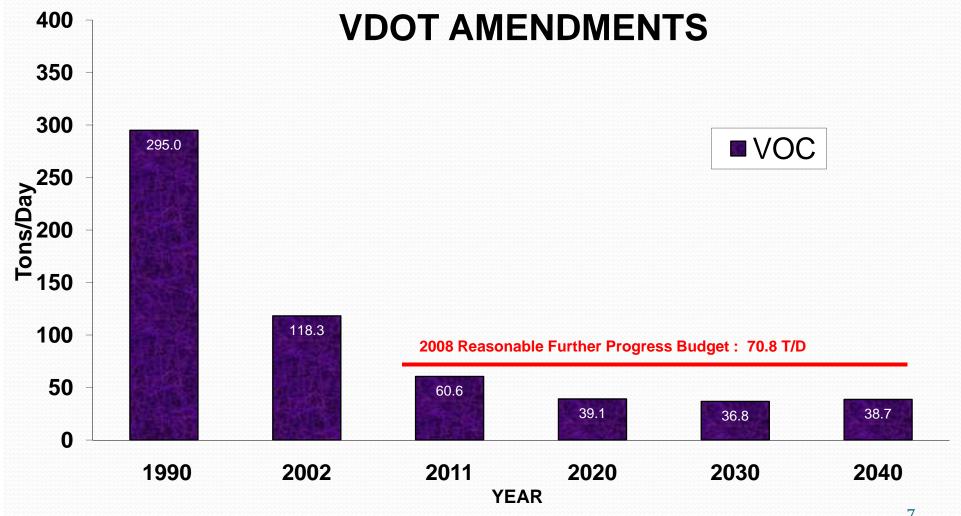
- Round 8.o Cooperative Forecasts
- 2191 TAZ Area System
- Version 2.2 Travel Demand Model
- ❖ Mobile 6.2 Emissions Model
- \*2020, 2030, 2040 Analysis Years

(Original 2010 CLRP vs. Amended 2010 CLRP)

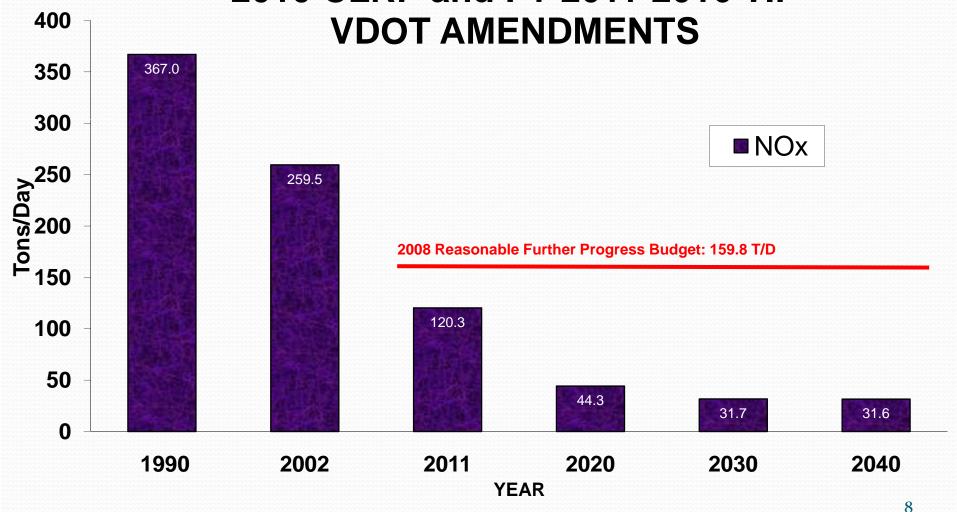
# **EMISSIONS**

Decrease slightly for all pollutants due to VMT reduction

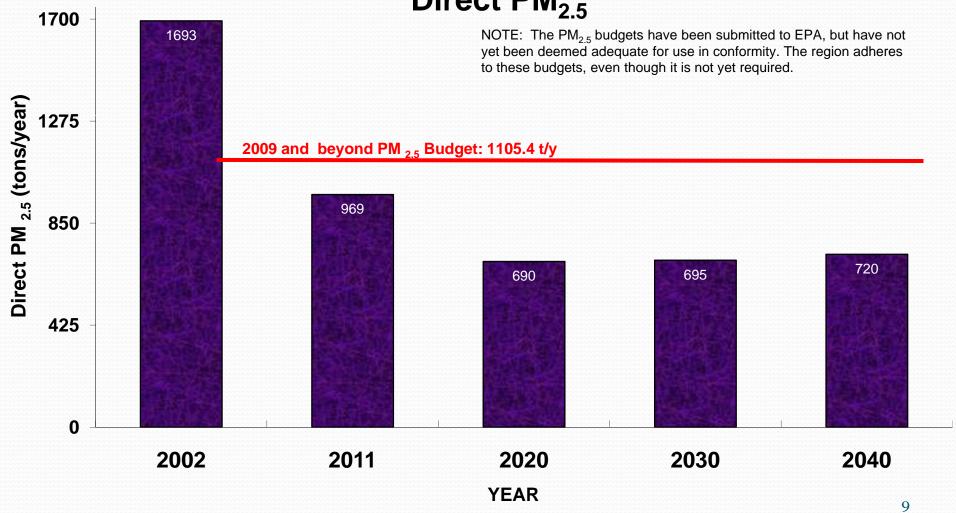


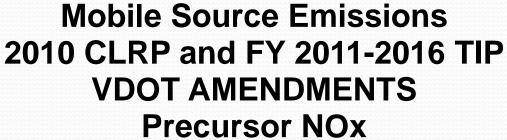


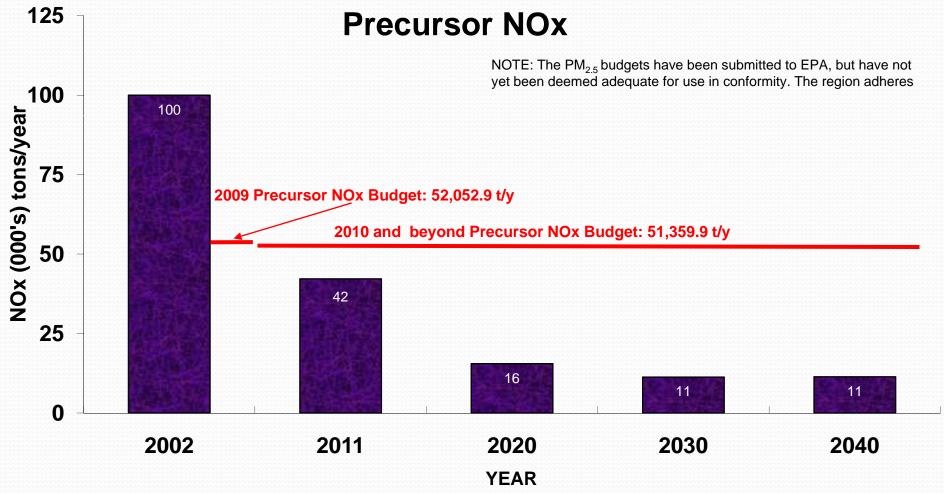
# Mobile Source NOx Emissions for the 8-Hour Ozone Nonattainment Area 2010 CLRP and FY 2011-2016 TIP VDOT AMENDMENTS



#### Mobile Source Emissions 2010 CLRP and FY 2011-2016 TIP VDOT AMENDMENTS Direct PM<sub>2.5</sub>







(Original 2010 CLRP vs. Amended 2010 CLRP)

# Vehicle Miles Traveled (VMT)

YEAR	VMT			
	original	amendment	difference	% difference
2020	177,817,000	177,530,000	-287,000	-0.2%
2030	190,672,000	190,422,000	-250,000	-0.1%
2040	199,814,000	199,464,000	-350,000	-0.2%

Some VMT diversion from freeway to non-freeway in Arlington, Alexandria, Fairfax, and Prince William

(Original 2010 CLRP vs. Amended 2010 CLRP)

# Vehicle Hours of Delay (VHD)

YEAR	VHD			
	original	amendment	difference	% difference
2020	4,215,000	4,257,000	42,000	1.0%
2030	5,088,000	5,113,000	25,000	0.5%
2040	5,960,000	5,974,000	14,000	0.2%

More congestion on freeways and nonfreeways in Alexandria and Arlington, and less congestion in the District of Columbia

(Original 2010 CLRP vs. Amended 2010 CLRP)

# Vehicle Trips

YEAR	Total Vehicle Trips			
	original	amendment	difference	% difference
2020	24,560,000	24,574,000	14,000	0.1%
2030	26,887,000	26,906,000	19,000	0.1%
2040	28,777,000	28,793,000	16,000	0.1%

Some HOV trips become LOV trips, and some trips shorten in length due to reduced accessibility to Arlington, Alexandria, and the District of Columbia

(Original 2010 CLRP vs. Amended 2010 CLRP)

# Transit Trips

YEAR	Transit Trips			
	original	amendment	difference	% difference
2020	1,378,000	1,373,000	-5,000	-0.4%
2030	1,517,000	1,509,000	-8,000	-0.5%
2040	1,625,000	1,616,000	-9,000	-0.6%

Decrease slightly due to decrease in transit service and changes in trip distribution

# **SCHEDULE**

June 9 Public Comment Begins

June 15 TPB Briefed on Conformity Results

July 9 Public Comment Ends

July 20 TPB Reviews Comments, Asked to Adopt Amendments