

# 2015 NATIONAL AMBIENT AIR QUALITY STANDARDS FOR OZONE: REDESIGNATION REQUEST AND MAINTENANCE PLAN

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## Briefing on On-Road Emissions Inventories

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# Redesignation Request/Maintenance Plan

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- A Redesignation Request (RR) is a formal request to the EPA to designate an area as attaining the Ozone NAAQS, placing the region in “Maintenance” status.
- A Maintenance Plan (MP) outlines how the local air district will maintain its attainment of a federal air quality standard for 10 years into the future.
- In an Ozone MP, precursor pollutants, Volatile Organic Compounds (VOC) and Nitrogen Oxides (NO<sub>x</sub>), are evaluated instead of Ozone directly.
- MWAQC, in conjunction with TPB, develops both the RR and MP. These are then provided to the state air agencies for finalization and submission to the EPA for approval.



# Redesignation Request/Maintenance Plan

The TPB and the Metropolitan Washington Air Quality Committee (MWAQC) work together to develop the Maintenance Plan.

- I. TPB: Develops on-road mobile inventories for ozone season pollutants, VOC and NO<sub>x</sub>, using the latest version of EPA's MOVES model, MOVES5.
- II. MWAQC: Develops inventories for other sources.
- III. TPB & MWAQC: Set motor vehicle emissions budgets (MVEBs) for use in future air quality conformity analyses of the region's Long-Range Transportation Plans and Transportation Improvement Programs.

The RR and MP are provided to the state air agencies for finalization and submission to the EPA for approval, tentatively in late 2026/early 2027



# Elements of Redesignation Request and Maintenance Plan

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## Air Quality Data

- Monitor data to show compliance with the 2015 ozone standard (3-year average: 2019-2021)

## Emissions Inventories (All Sources)

- 2017 Base Year
- 2022 Attainment Year
- 2032 Intermediate Year
- 2038 Final Maintenance Year (must be at least 10 years beyond EPA's official date of redesignation for an area – likely in 2027)



# Elements of Redesignation Request and Maintenance Plan

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## Contingency Measures

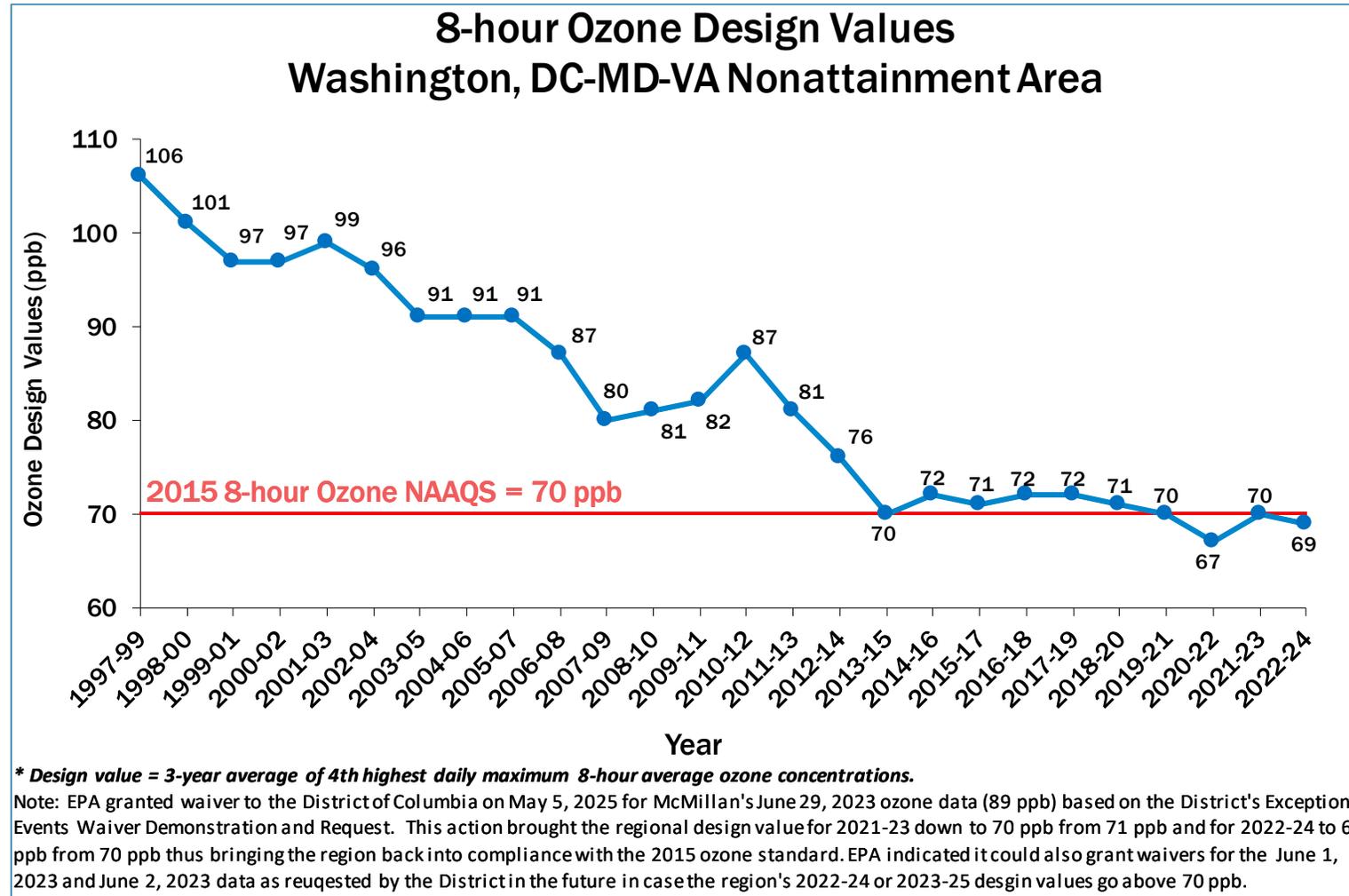
- In case region exceeds the ozone standard in future, these measures would be implemented.

## Motor Vehicle Emissions Budgets (MVEBs)

- Emissions ceilings for on-road mobile sources (2022, 2032, 2038).
- The new MVEBs will replace the existing MVEBs, developed for the previous 2008 Ozone Standard.
- EPA can provide an adequacy finding for the MVEBs so they can be used for air quality analyses without waiting for the MP to be approved.



# Ozone Standards – Regional Data



# Emissions Inventories

## On-Road Emissions Inventories for NO<sub>x</sub> and VOC\*

Pollutant	2017	2022	2032	2038
Oxides of Nitrogen (NO <sub>x</sub> )	110.048	60.519	23.556	15.854
Volatile Organic Compounds (VOC)	53.345	33.861	21.357	17.791

\* For 8-hour Ozone Nonattainment Area



# Next Steps

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- TPB staff will work with DEP staff and the committee to develop MVEBs once inventories for all sources have been finalized.



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