

BWI Marshall Airport Noise Zone (ANZ) Post-NextGen

Presented by Mary Reese of the DC Metroplex BWI Community Roundtable January 19, 2021



Purpose of this Presentation

- Briefly review the purpose and process of the ANZ update required by COMAR*
- Highlight noise threshold used to determine the ANZ*
- Demonstrate with post-NextGen Aircraft Noise Complaints & Reports that these metrics are problematic

*For complete explanation and analysis see MDOT MAA's Draft 2020 BWI ANZ Update (full document & appendices) now posted on the MAA's Community Relations page.



BWI Marshall's ANZ

- The current certified ANZ for BWI Marshall, certified in 2014, is referenced in COMAR Section 11.03.02.10 and incorporated by reference in COMAR Section 11.03.01.01-1(B)(5).
- Required to be updated every five years.
- The MDOT MAA develops and certifies the BWI ANZ pursuant to the Maryland Environmental Noise Act of 1974 (See Transportation Article, §§5-805, 5-806, and 5-819, Annotated Code of Maryland).

Source: MDOT MAA Information Brief on BWI Thurgood Marshall Airport Noise Zone Update presented to the BWI Roundtable 11/17/20



BWI Marshall's ANZ (cont.)

- Maryland law (Maryland Environmental Noise Act of 1974) requires the protection of citizens from the impact of transportation related noise.
- The requirements found in the Code of Maryland Regulations (COMAR) actually preceded federal requirements for noise abatement found in the Code of Federal Regulations (CFR) Part 150.
- The COMAR requires MDOT MAA to control incompatible land development in areas where noise levels are Day-Night Average Sound Level (DNL) of 65 dBA or more.





Planned Airport Growth

The 5-year modeled average daily aircraft operations are expected to increase from 2020 base year by approximately 6%.

The 10-year modeled average daily aircraft operations are expected to increase by approximately 15%.

Construction of a parallel Runway 10R/28L will be complete and RWY 15R/33L will be extended by 1,000 feet.

Source: MDOT MAA 2020 Airport Noise Zone Update and Noise Abatement Plan









Residential Portable Noise Monitoring program

- The MDOT MAA provides homeowners the opportunity to request a temporary noise monitor, set up by the MDOT MAA on the homeowner's property, and then provides a detailed technical report upon conclusion.
- These reports provide both the noise of individual aviation events and the overall aircraft noise DNL for each property assessed.
- Unlike the MDOT MAA's 24 permanent noise monitors placed close-in to the airport, these portable noise monitors are being requested to survey residential areas considerable distances from the airport where aviation noise is disruptive to residents.

Noise Monitor Report Results



	2015	2016	2017	2018	2019	2020
Number of Reports	9	11	17	19	15	1
Average DNL	53 dB	56 dB	52 dB	55 dB	49 dB	56 dB
Highest DNL	61 dB	61 dB	64 dB	62 dB	63 dB	
Lowest DNL	43 dB	47 dB	40 dB	39 dB	40 dB	

Source: MDOT MAA Community Relations webpage, 1/28/20



DISCUSSION