

Technical Appendix 9-7 Operational Wind Turbine Noise Assessment Graphs

EIAR – Volume 3

Muingmore Wind Farm

SLR Project No.: 501.065301.00001

April 2026



RWE Renewables Ireland Limited
Muingmore Wind Farm – Noise and Vibration
Technical Appendix 9-7
Operational Wind Turbine Noise Assessment Graphs

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1 Introduction

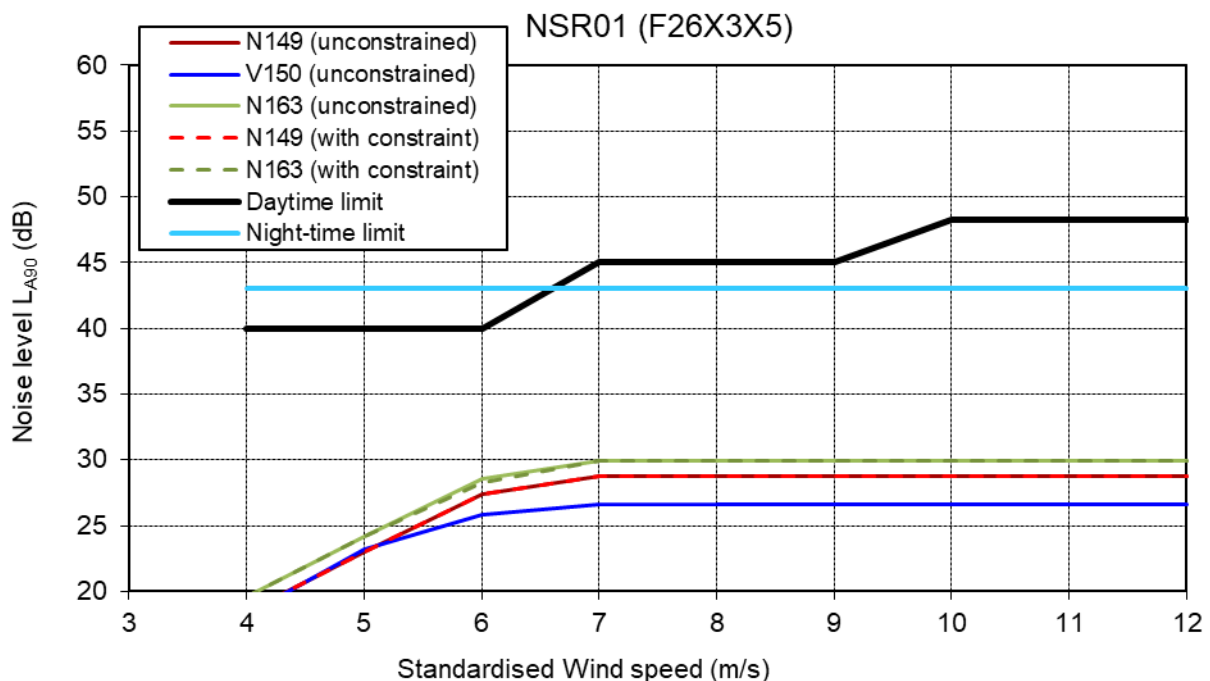
1.1.1 This Appendix provides the detailed calculation results of the predicted wind turbine noise immission level at each of the Noise Sensitive Receptors (NSRs). Set out subsequently for each NSR is the following information both in graphical format:

- The overall noise limits for the daytime (solid black line) and night-time (solid light blue line); and
- The Proposed Project wind turbine noise for the three candidate turbine options:
 - Nordex N149 5.7 MW (red line);
 - Nordex N163 7.0 MW (green line); and
 - Vestas V150 6.0 MW (blue line).

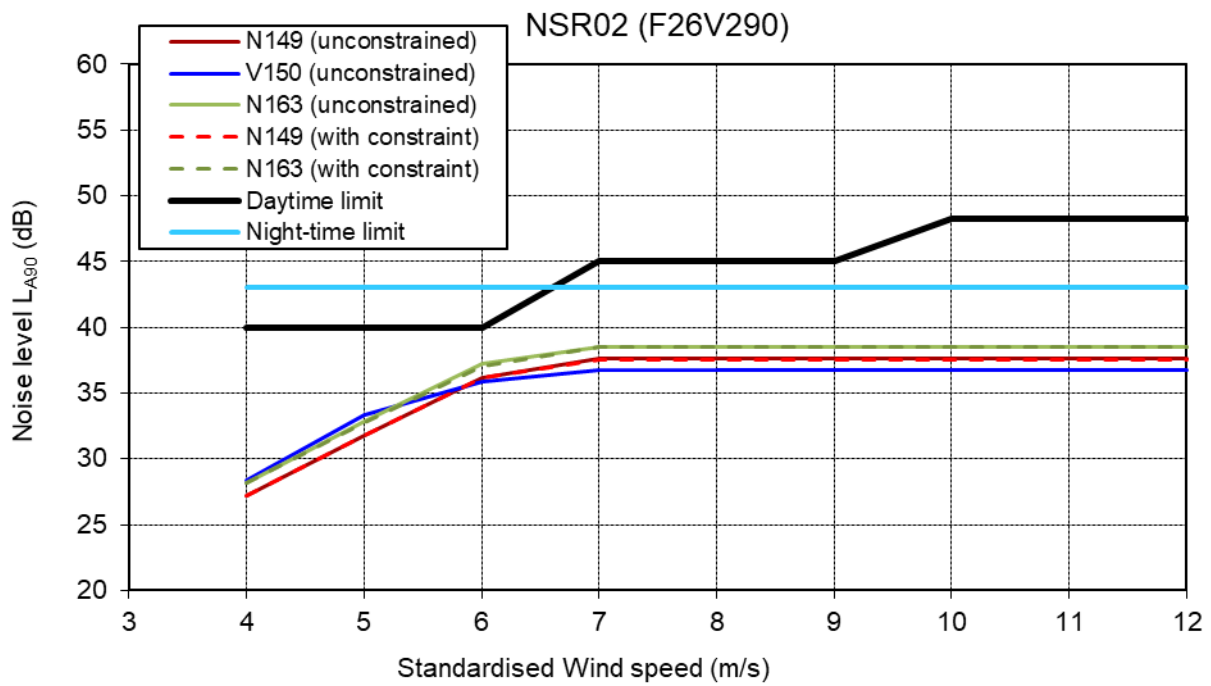
1.1.2 For the case of the Nordex N149 and N163 turbine options, where operational constraint is required at 6 m/s, the constrained wind turbine noise level is shown as a dashed line of the appropriate colour. All unconstrained wind turbine noise levels are shown as solid lines using the colour scheme above.

1.1.3 The predicted noise immission levels from the Proposed Project include the appropriate uncertainty as discussed in Chapter 9 of the EIA Report.

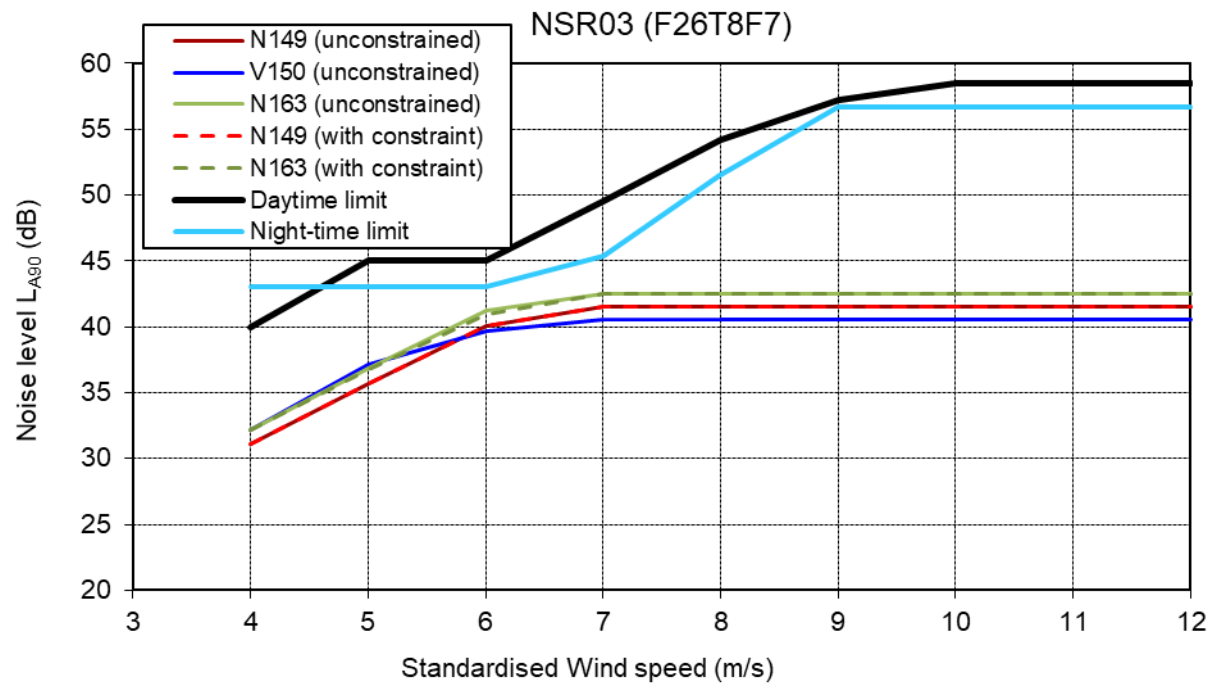
Graph 9-17 – Assessment Graph NSR01



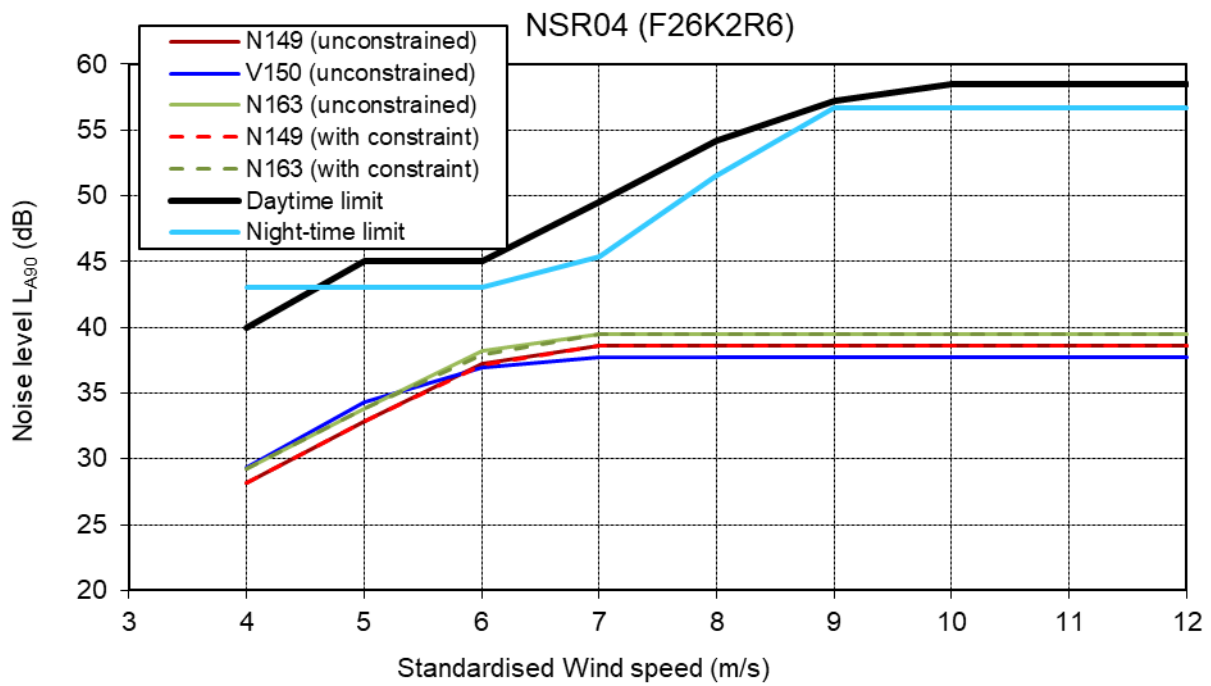
Graph 9-18 – Assessment Graph NSR02



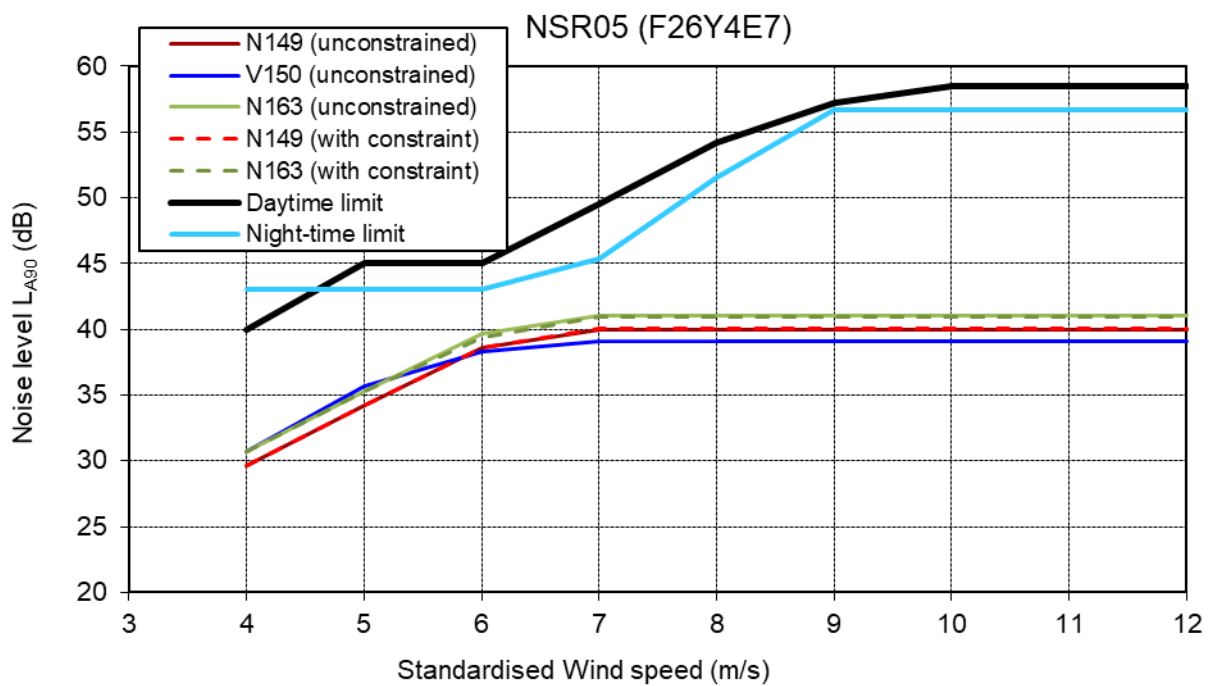
Graph 9-19 – Assessment Graph NSR03



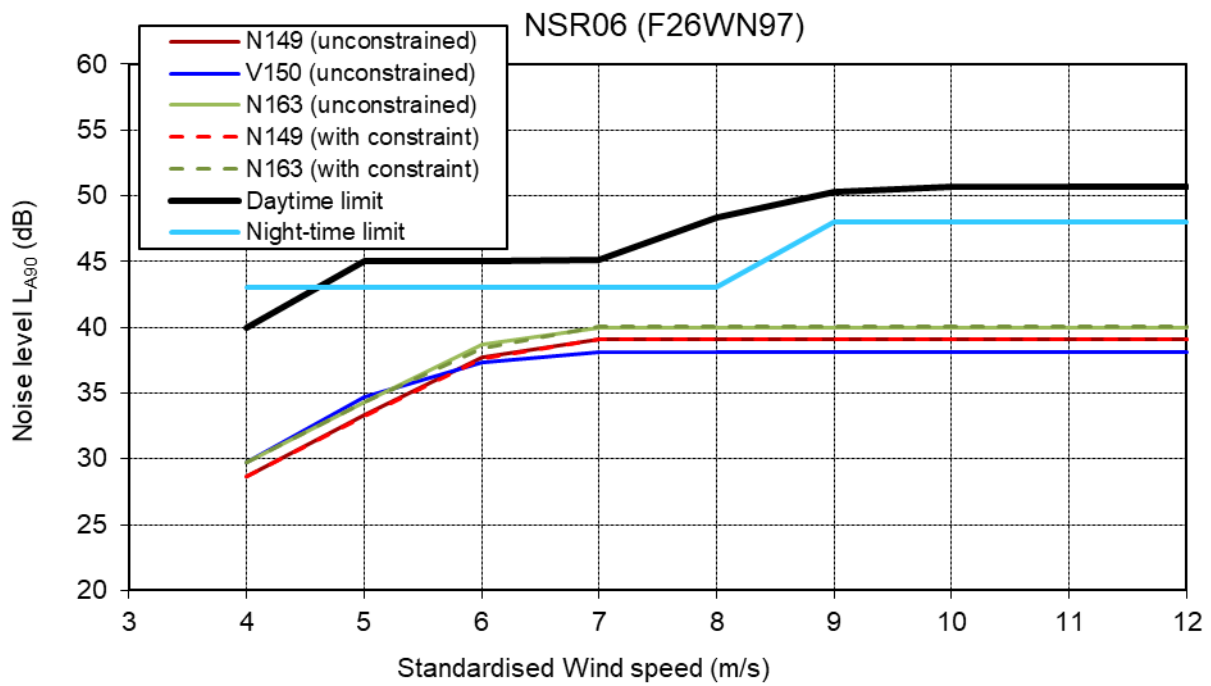
Graph 9-20 – Assessment Graph NSR04



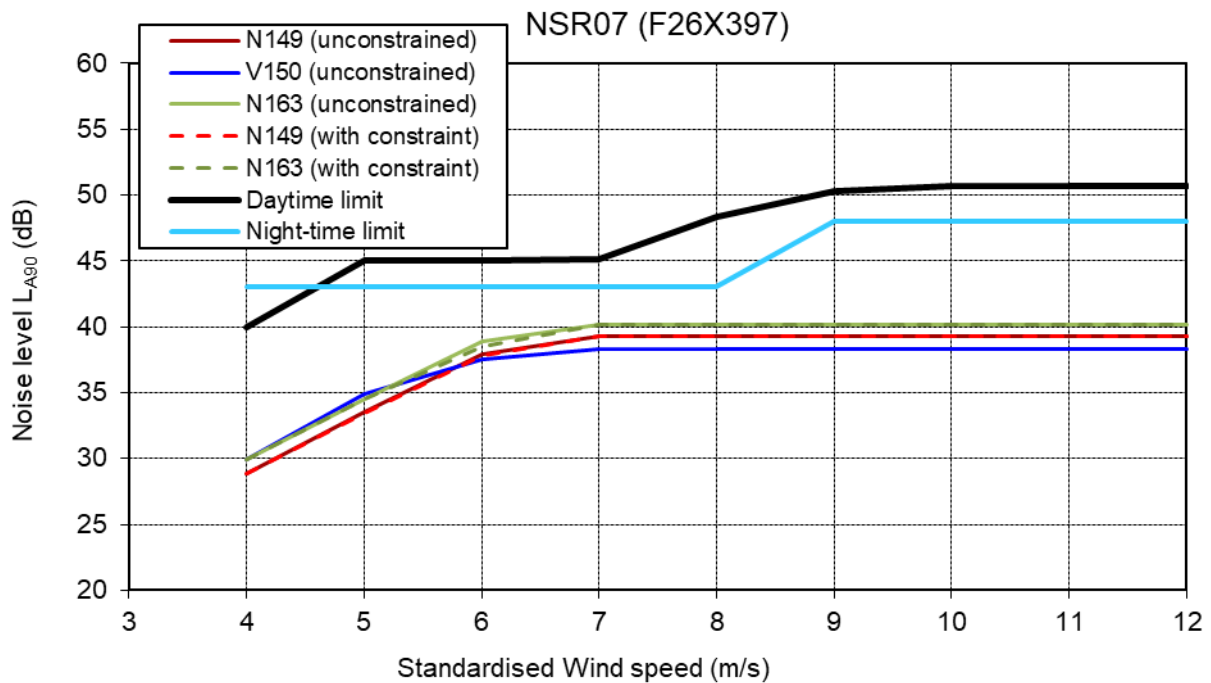
Graph 9-21 – Assessment Graph NSR05



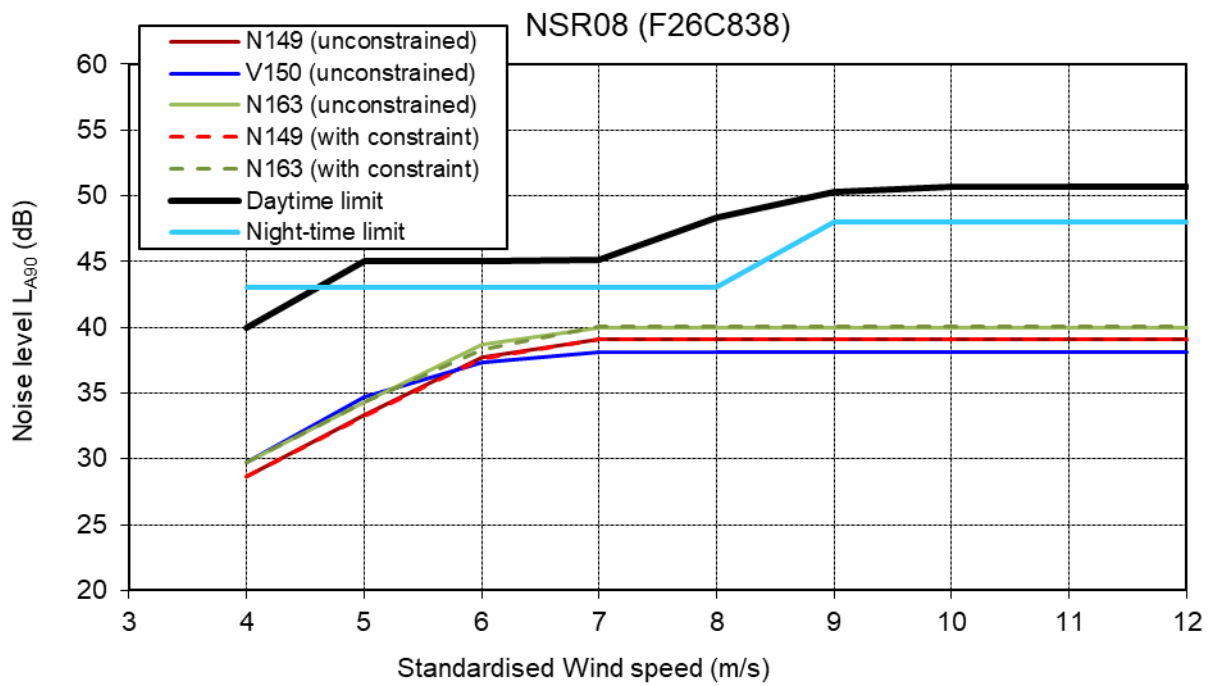
Graph 9-22 – Assessment Graph NSR06



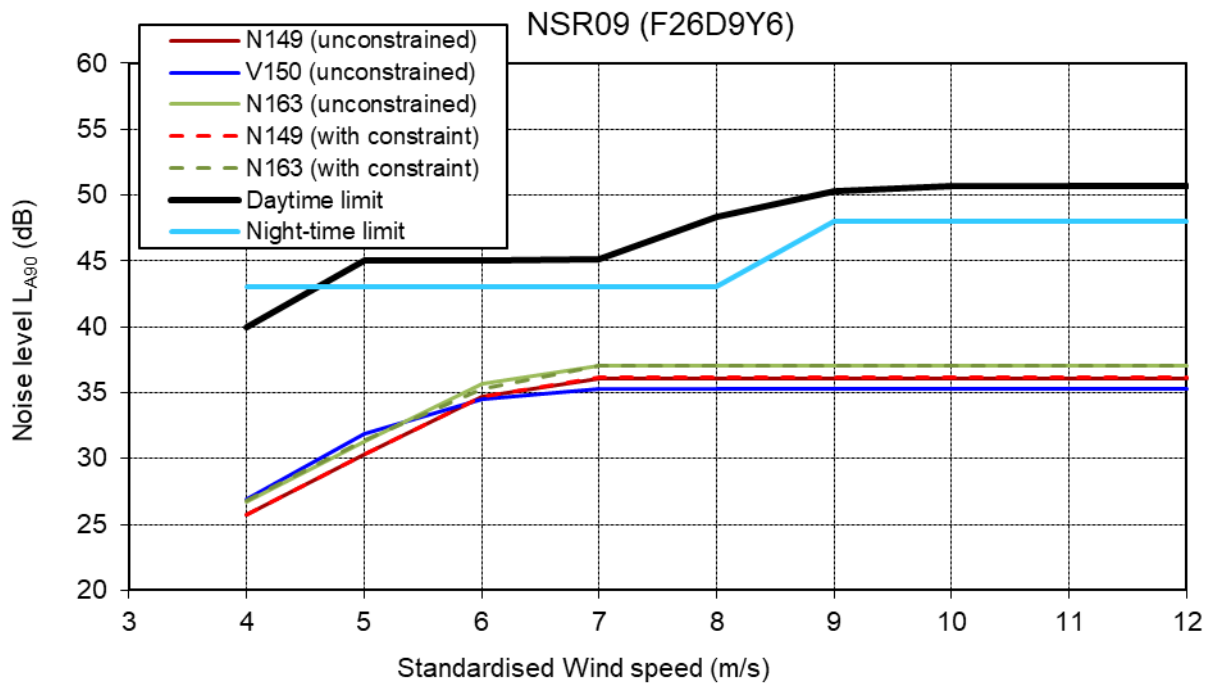
Graph 9-23 – Assessment Graph NSR07



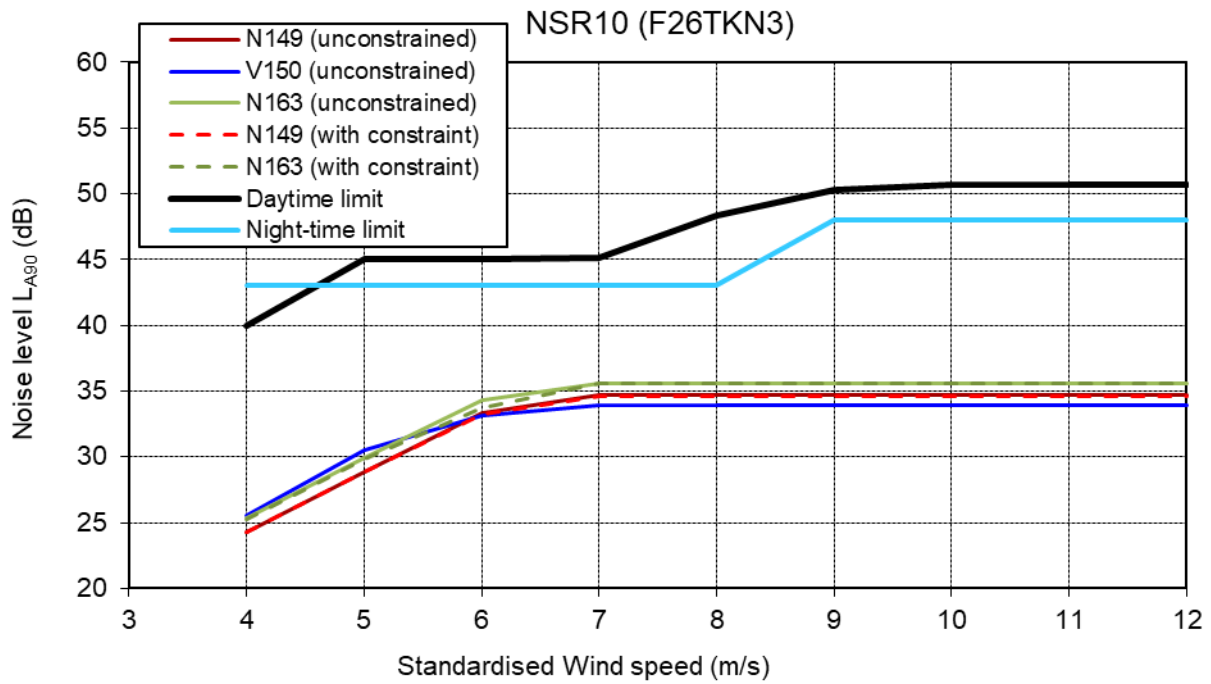
Graph 9-24 – Assessment Graph NSR08



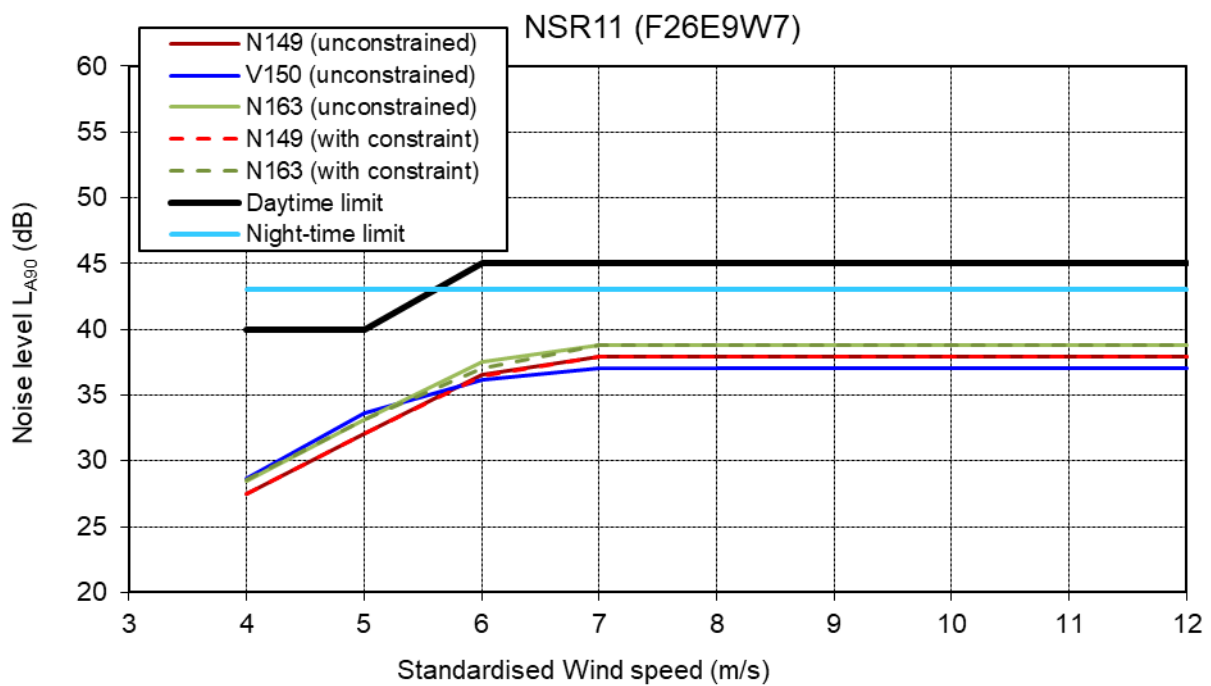
Graph 9-25 – Assessment Graph NSR09



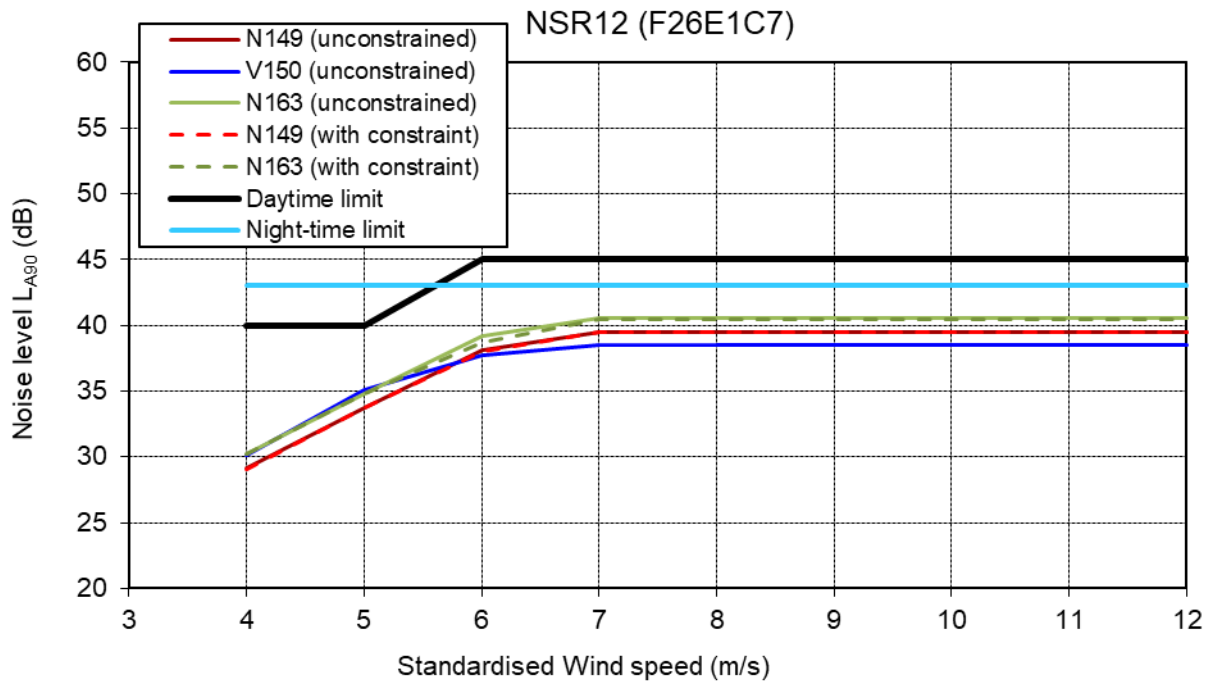
Graph 9-26 – Assessment Graph NSR10



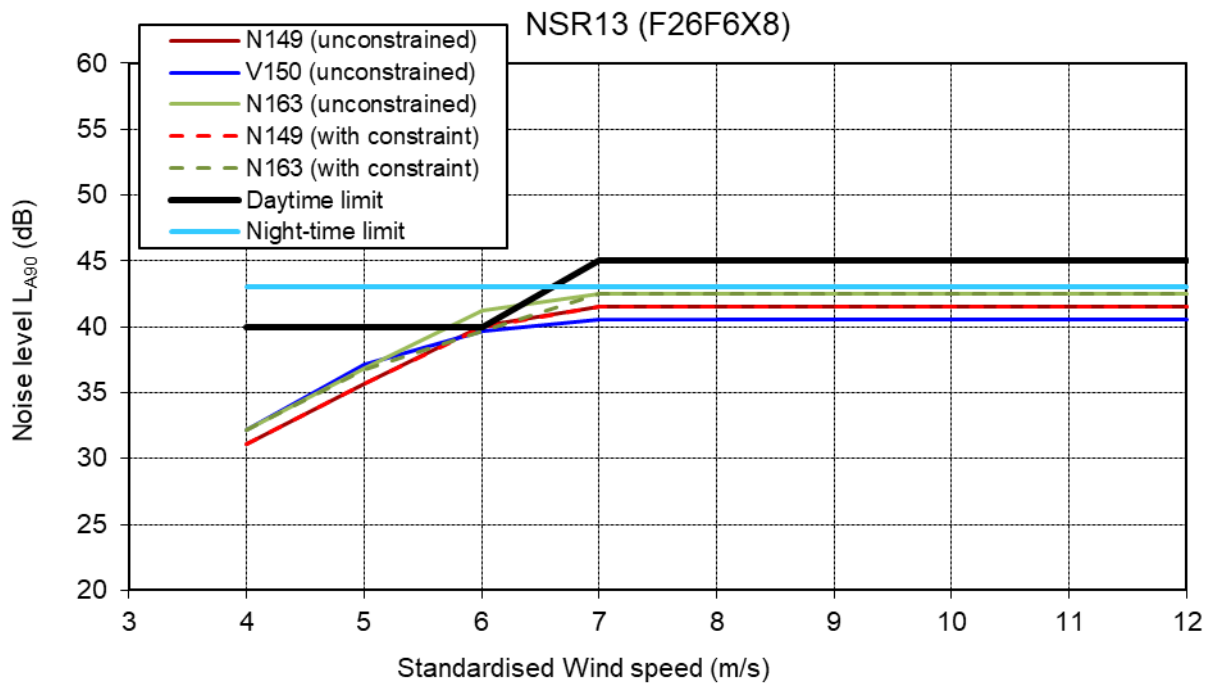
Graph 9-27 – Assessment Graph NSR11



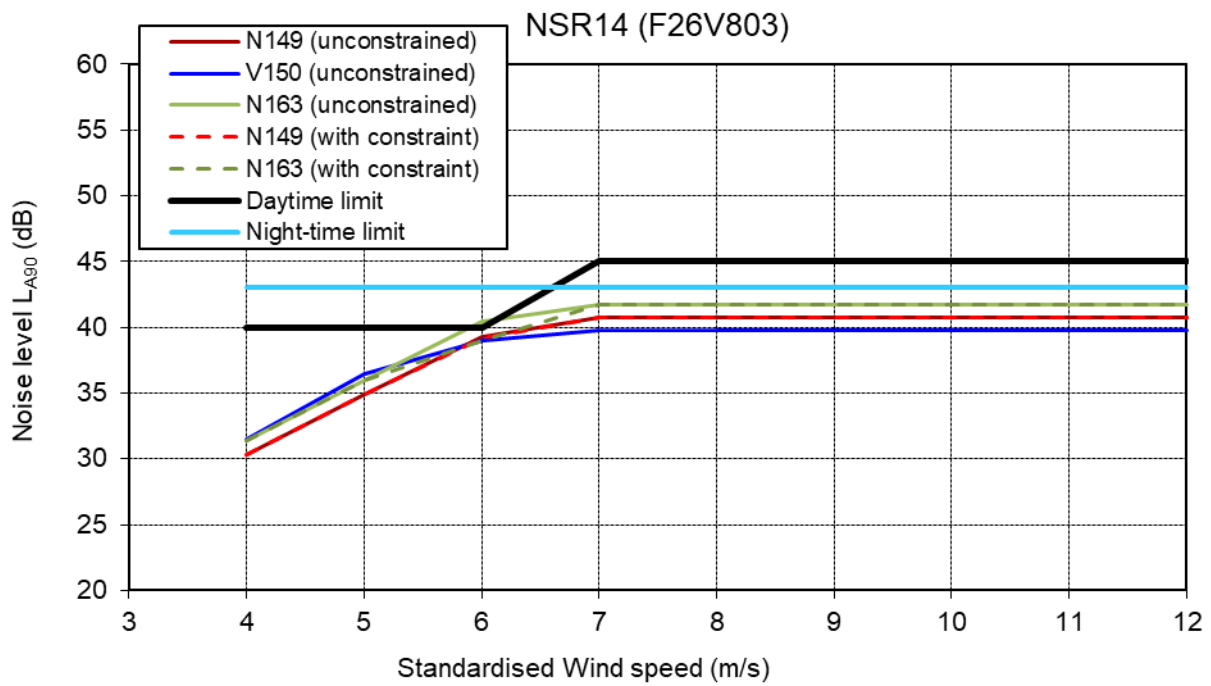
Graph 9-28 – Assessment Graph NSR12



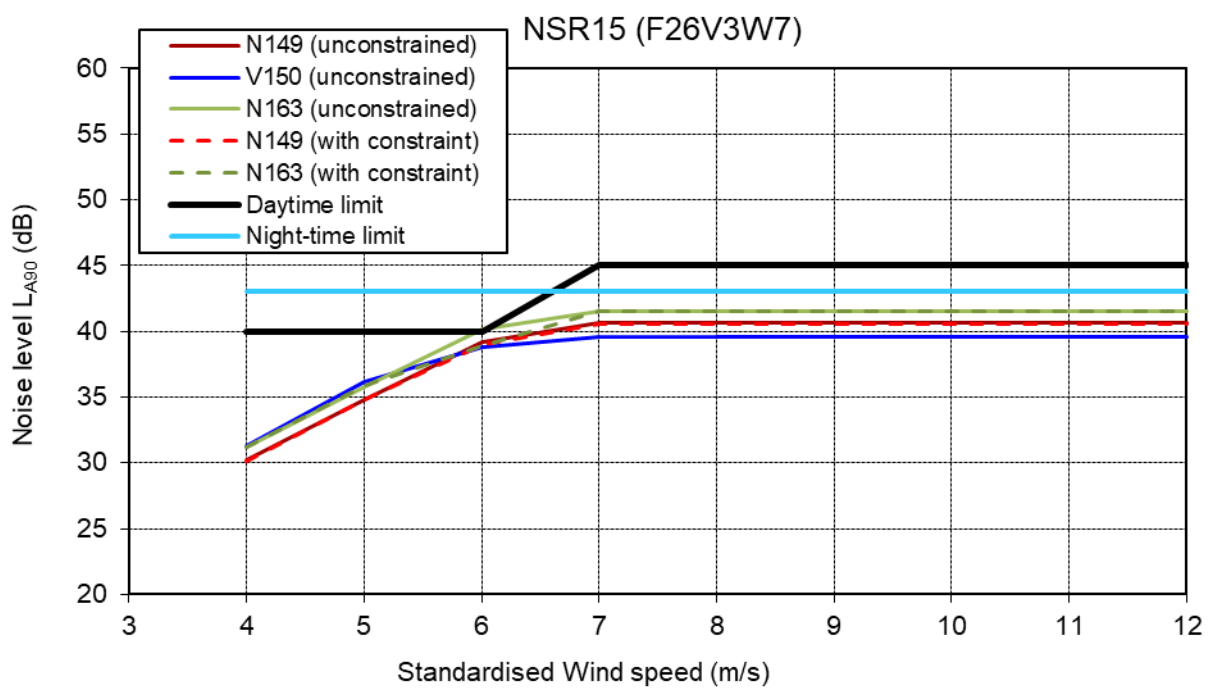
Graph 9-29 – Assessment Graph NSR13



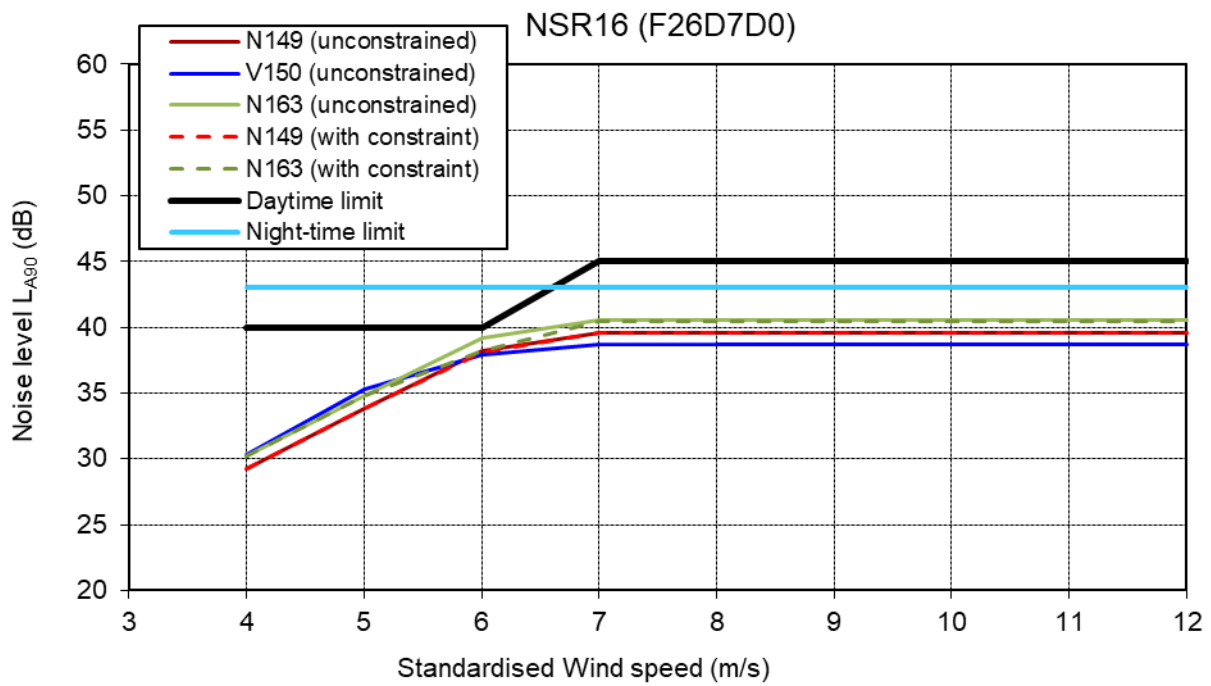
Graph 9-30 – Assessment Graph NSR14



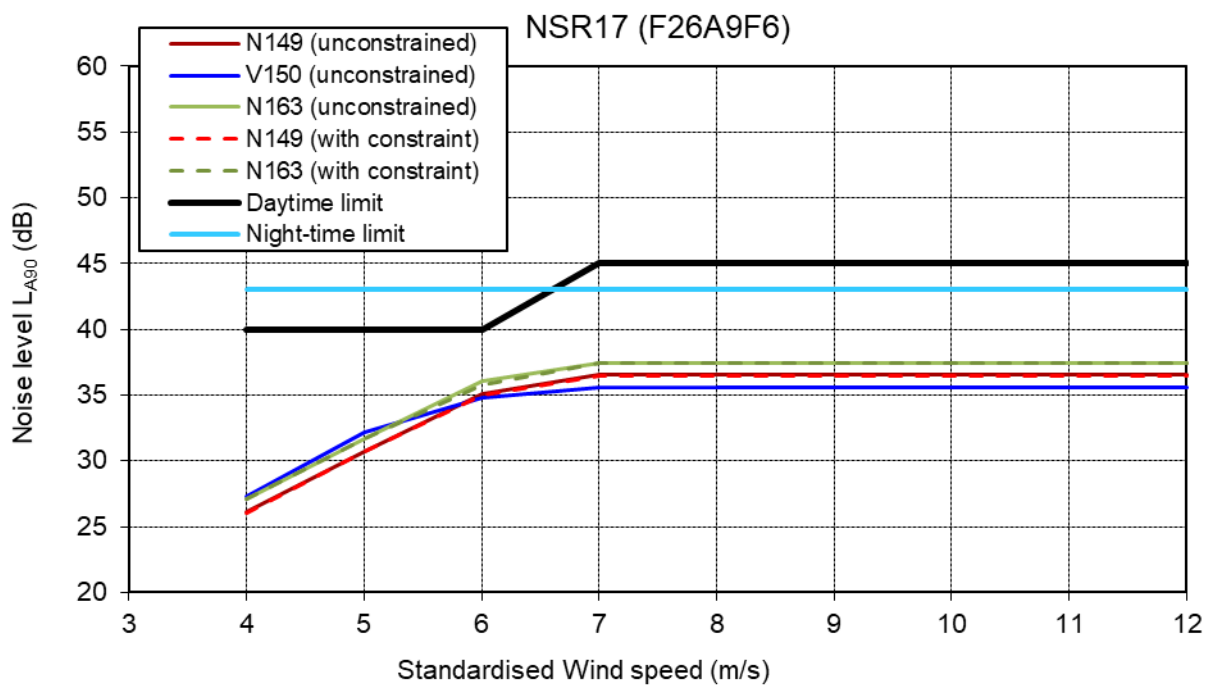
Graph 9-31 – Assessment Graph NSR15



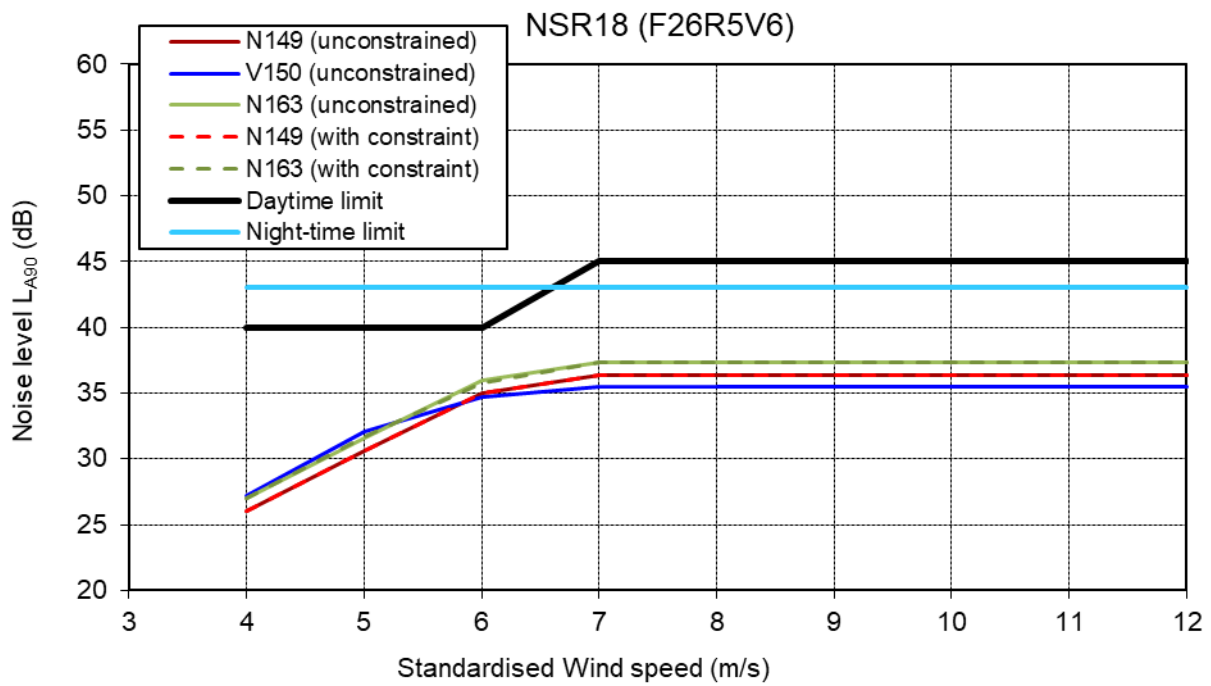
Graph 9-32 – Assessment Graph NSR16



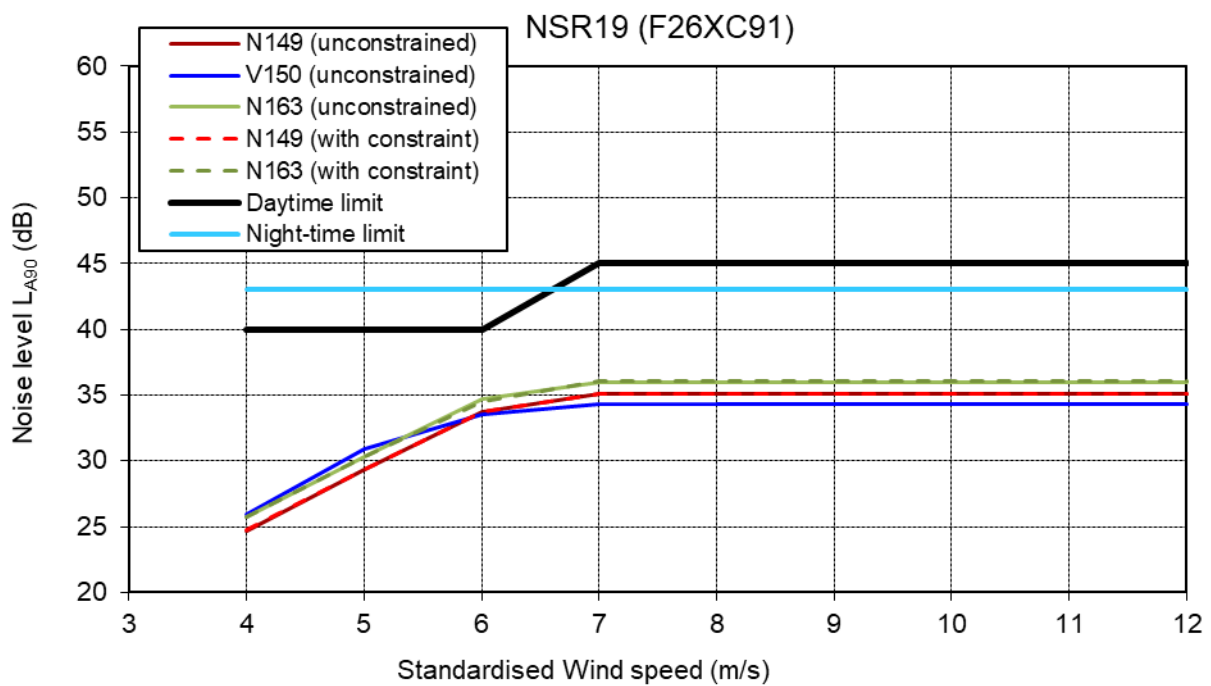
Graph 9-33 – Assessment Graph NSR17



Graph 9-34 – Assessment Graph NSR18



Graph 9-35 – Assessment Graph NSR19



Graph 9-36 – Assessment Graph NSR20

