



ELLERSHOUSE WIND FARM EXPANSION
Environmental Assessment Registration - Addendum

January 2017

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Environmental Assessment Registration Document -
Addendum

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1.0 INTRODUCTION

Minas Energy, on behalf of the Alternative Resource Energy Authority (AREA), has proposed to construct and operate a 16.4 megawatt (MW) expansion of the existing 16.4 MW wind project in the community of Ellershouse, Nova Scotia. The expansion will consist of seven (7) 2.35 MW turbines, access roads, interconnecting cables and a connection to the Nova Scotia Power Inc. grid. The owner of the Project, the AREA, is a partnership between the municipal authorities of the towns of Berwick, Mahone Bay and Antigonish. The proposed Project site is located on vacant lands south of the existing Ellershouse Wind Farm which is situated approximately 11 km southeast of Windsor, Nova Scotia in the Municipality of the District of West Hants (44°55'16.28"N, 64° 1'7.25"W).

The Ellershouse Wind Farm Expansion Environmental Assessment (EA) document was registered on November 17, 2016. On January 13, 2017 the Minister of Environment determined that the information provided was insufficient to make a decision. Specifically, additional information was required to evaluate potential environmental effects that may be caused by the undertaking. The information requested is outlined below:

- The Proponent must demonstrate that sound levels are within recommended guidelines at all receptors; and
- Archaeological information is required for the entire proposed project site.

To address the items raised in the Minister's decision, and in consultation with the EA reviewers, the following tasks were completed:

- Sound modelling including the provision of all modelling data inputs and discussion of methodology.
- Discussion of infrasound and low frequency sound generated by wind turbines.
- Consultation with Nova Scotia Department of Communities, Culture and Heritage - Special Places Program regarding additional archaeological screening requirements.

The sections that follow present the methodology and findings of the respective assessments for the Project.

2.0 SOUND ASSESSMENT

An acoustic assessment of predicted sound pressure levels associated with the proposed turbines was completed for the Project and included in the EA document. In discussion with Allison Denning, Regional Environmental Assessment Coordinator, Health Canada, on January 17, 2017, some additional details were requested regarding the inputs and assumptions for the sound modelling for the Project. In addition, a request for a comment on Low Frequency Noise and the commitments from the Project to monitor any noise related complaints. These issues are provided in the following sections.

2.1 Sound Modelling

2.1.1 Assessment Methodology

An acoustic assessment was conducted for the Project to predict sound pressure levels at identified receptors within a 2 km radius of the proposed turbine locations. The assessment was completed using the WindPro v. 3.1 software package. For the purposes of this model, receptors included all structures identified in the provincial topographic mapping, as well as any additional identifiable structures based on aerial imagery. No attempt to distinguish sheds and outbuildings from dwellings or cottages was made. The closest structures (R19 927 m, R70 912 m) are a house and outbuilding located near the dam facilities on Panuke Lake. Both the house and the land are owned by Minas Pulp and Power, with an employee residing there for the purposes of operating the dam facilities.

The model followed ISO 9613-2 Acoustics – Attenuation of sound during propagation outdoors – Part 2: General method and calculations, and was based on the following input information:

- UTM coordinates for the wind turbines;
- 1/1 Octave band sound power level data, either provided by the manufacturer or calculated by WindPro, for the wind turbines;
- UTM coordinates for receptors (all structures within a 2 km radius of the Project site were evaluated – 5 receptors in total);
- A wind speed of 10 m/s, the speed at which the highest sound power level output is achieved (based on test data from the manufacturer); and
- Topographic data for the surrounding area.

The ISO 9613-2 calculation method assumes meteorological conditions that are ideal for noise propagation, including a ground temperature of 10°C and 70% relative atmospheric humidity. A ground factor of 0.7 was applied to the model, representing predominantly porous ground (*i.e.*, capable of vegetative growth) interspersed with hard surfaces (*e.g.*, water).

Habitat mapping reveals that the vast majority of the Project site is forested, with mixed wood and softwood stands being the dominant habitat features. Intact forest stands at the Project site are varied in their composition and successional stage. Balsam fir, red maple, red spruce, black spruce, and yellow birch characterize the canopy in most stands.

2.1.2 Sound Modelling Results

A total of 5 structures were identified within a 2 km radius of the proposed turbine locations. Modeling results indicated that no existing structure has predicted sound levels exceeding 40 dBA. To assess the cumulative impact resulting from the addition of seven turbines to the existing wind farm, a second assessment was conducted to predict sound pressure levels at identified receptors within a 2 km radius of the entire Ellershouse Wind Farm (14 turbines in total). A total of 194 structures were identified within a 2 km radius of the wind farm.

Modelling results, including the following information, are provided in Appendix A:

- WindPro v. 3.1 modeling Calculation Assumptions Sheet
- WindPro v. 3.1 modeling Main Results Sheet
- WindPro v.3.1 modeling Detailed Results Sheet
- Drawing indicating predicted sound pressure levels (Drawing 1)

Modeling results indicated that no existing structure has predicted sound levels exceeding 40 dBA. Mapping illustrating the predicted sound levels relative to structures is provided in Drawing 1. Excessive noise resulting from turbine operation is not expected to be an issue at any existing dwellings/residences.

2.2 Infrasound and Low Frequency Noise

Infrasound is very low-frequency sound, that is typically defined as being between 1-20 Hz, which is below what human ears can normally hear. A detailed literature review on the health effects associated with infrasound generated by wind turbines is provided in Appendix C of the Ellershouse Wind Farm Expansion EA (2016).

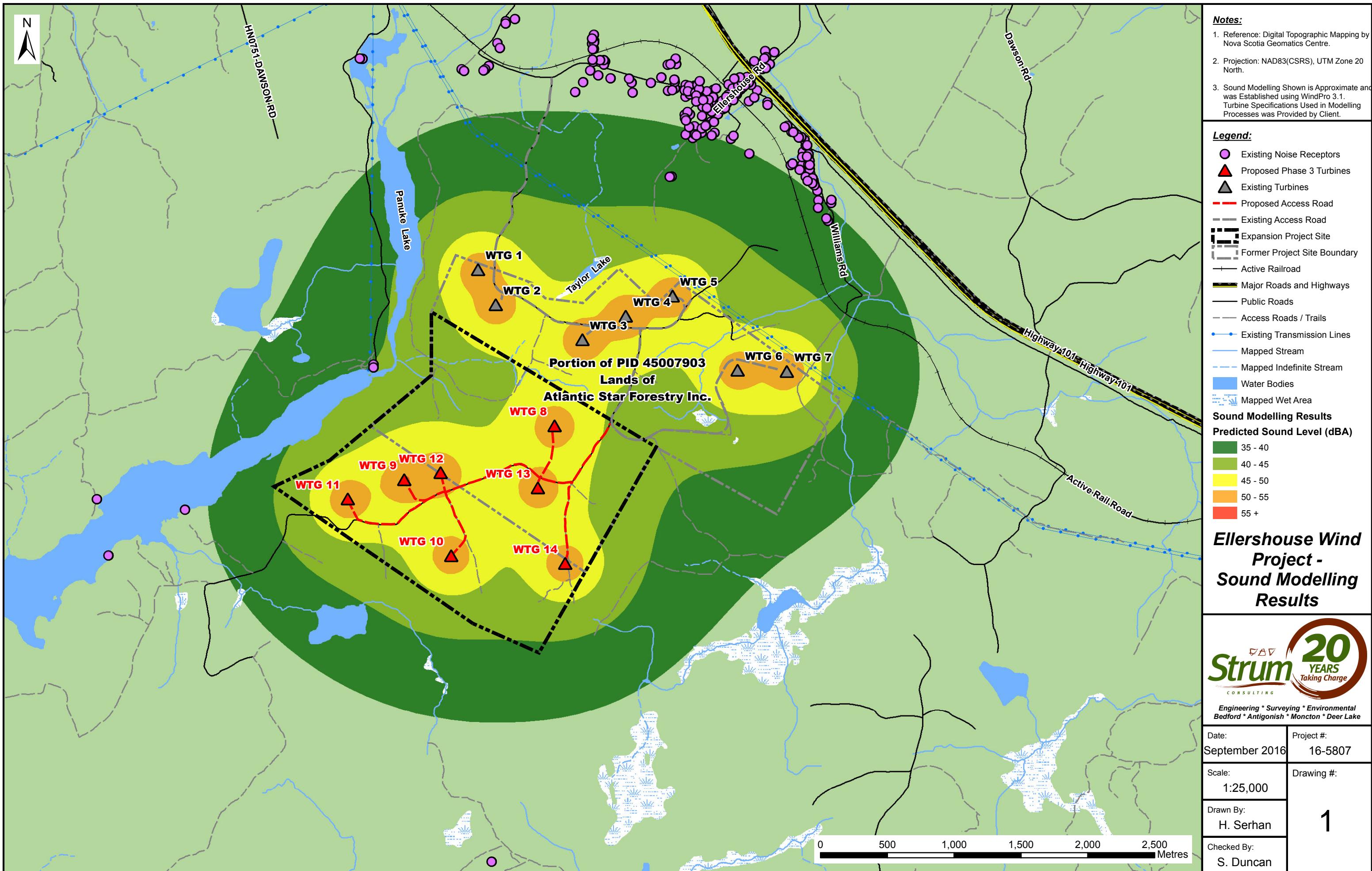
Low frequency noise (LFN) has been used to describe frequencies between 20Hz and about 200Hz. The dominant source of wind turbine LFN is incoming turbulence interaction with the blade. Beyond the auditory threshold, low frequency sound is more annoying than that at higher frequencies. It also travels further than higher frequency sound, and can penetrate structures such as homes without much reduction in energy . LFN can create indoor noise problems such as perceptible vibration and rattle (Michaud et al. 2012).

The Chief Medical Officer of Health in Ontario conducted a review of papers and reports (from 1970 to 2010) on wind turbines and health from scientific bibliographic databases, grey literature, and from a structured Internet search. The report concluded that “low frequency sound and infrasound from current generation upwind model turbines are well below the pressure sound levels at which known health effects occur. Further, there is no scientific evidence to date that vibration from low frequency wind turbine noise causes adverse health effects” (CMOH 2010).

In the event that a noise complaint (including low frequency and/or infrasound) is received from residents within the vicinity of the Ellershouse Wind Farm, the Proponent will initiate a complaint resolution protocol that will involve monitoring noise levels at the affected house and employing appropriate mitigation measures.

3.0 ARCHAEOLOGICAL INFORMATION

Davis MacIntyre and Associates Limited conducted an Archaeological Resource Impact Assessment (ARIA) for the initial Project footprint. The assessment included a historic background study and reconnaissance of the Project site to determine the potential for archaeological resources within the site. Archaeological reconnaissance was conducted in November 2013. The assessment indicated that the overall Project area was not likely settled by First Nations peoples or by Euro-Canadians. Historic maps and documents indicate that there was a settlement to the north of the site in the late



19th century, and that logging camps existed, particularly to the west of the site. Logging roads, some of which are still in existence, pass through the site; however the reconnaissance did not reveal any past cultural activity aside from 20th and very early 21st century logging. The overall Project footprint was determined to be of low archaeological potential and, therefore, no further mitigation was recommended. It was further recommended that in the event that development plans change so that areas not investigated during this assessment were to be impacted, that those areas be assessed by a qualified archaeologist (Davis MacIntyre and Associates Ltd. 2013). These recommendations were accepted by the Department of Communities, Culture and Heritage in December 2013.

Given the subsequent expansion of the proposed development footprint, Minas Energy, on behalf of the AREA, understands that an additional archaeological field screening within the expanded footprint must take place prior to the commencement of any development activities. Sean Weseloh McKeane at the Nova Scotia Department of Communities, Culture and Heritage - Special Places Program, was contacted January 17, 2017 by Sara Beanlands (Boreas Heritage Consulting Inc.) on behalf of the Proponent, to discuss additional site screening commitments within the revised Project footprint. It was determined that in order to provide the most comprehensive information possible so that appropriate resource management strategies can be devised in light of the proposed expansion and implementation, Minas Energy will undertake the archaeological field screening of the revised footprint according to the terms of Heritage Research Permit guidelines, issued by the Nova Scotia Department of Communities, Culture and Heritage - Special Places Program. This field screening will take place as soon as weather permits in Spring 2017 and before the start of construction activities. A report including the results from this survey will be forwarded to Nova Scotia Department of Communities, Culture, and Heritage including any further recommendations.

As requested, a drawing showing the expanded Project footprint in relation to the original archaeological screening study area is provided in Appendix B.

4.0 SUMMARY

Through completion of the 2016 EA, in addition to findings associated with this Addendum document, it has been determined that there are no significant environmental concerns or effects that may result from the Project that cannot be effectively mitigated or monitored.

The proposed capacity of the seven turbines (16.4 MW) will produce enough energy to power approximately 4,500 households with local, clean, renewable energy and will contribute to reaching Nova Scotia's renewable energy commitments.

5.0 REFERENCES

CMOH (Chief Medical Officer of Health). 2010. The Potential Health Impact of Wind Turbines. Ontario Ministry of Health and Long Term Care.

Davis MacIntyre and Associates Ltd. 2013. *St. Croix Wind Project; Archaeological Resource Impact Assessment. Report # A2013NS111.*

Michaud, David S., Keith, Stephen E., Feder, Katya, and Tara Bower. 2012. Health Impacts and Exposure to Wind Turbine Noise: Research Design and Noise Exposure Assessment. Retrieved from: http://www.hc-sc.gc.ca/ewh-semt/consult/_2012/wind_turbine-eoliennes/research_recherche-eng.php#f1

APPENDIX A

SOUND MODELLING INPUTS AND ASSUMPTIONS

DECIBEL - Assumptions for noise calculation

Noise calculation model:

ISO 9613-2 General

Wind speed:

10.0 m/s

Ground attenuation:

General, fixed, Ground factor: 0.7

Meteorological coefficient, CO:

0.0 dB

Type of demand in calculation:

1: WTG noise is compared to demand (DK, DE, SE, NL etc.)

Noise values in calculation:

All noise values are mean values (Lwa) (Normal)

Pure tones:

Pure tone penalty is subtracted from demand: 0.0 dB(A)

Height above ground level, when no value in NSA object:

4.5 m Allow override of model height with height from NSA object

Deviation from "official" noise demands. Negative is more restrictive, positive is less restrictive.: 0.0 dB(A)

Octave data required

Air absorption

| 63 | 125 | 250 | 500 | 1,000 | 2,000 | 4,000 | 8,000 |
|---------|---------|---------|---------|---------|---------|---------|---------|
| [db/km] |
| 0.1 | 0.4 | 1.0 | 1.9 | 3.7 | 9.7 | 32.8 | 117.0 |

WTG: ENERCON E-92 2,3 MW 2350 92.0 !-

Noise: Level 0 - official - OM 0s - 2350kW - 01/2015

Source Source/Date Creator Edited

Enercon 1/2/2015 USER 10/7/2015 8:50 AM

According to manufacturer specification document D0369629-1_#_ger_#_DIC-SP-APV_-SPL_E-92_2350_kW_-BM_0s_Rev1.0

| Status | Hub height | Wind speed | LwA,ref | Pure tones | Octave data | | | | | | | | |
|--------------|------------|------------|---------|------------|--------------|------|------|------|------|------|------|------|------|
| | | | | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| From Windcat | 98.4 | 10.0 | 105.0 | No | Generic data | 86.6 | 93.6 | 97.0 | 99.6 | 99.4 | 96.5 | 91.7 | 82.2 |

NSA: R1-A

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R2-B

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R3-C

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R4-D

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

DECIBEL - Assumptions for noise calculation

NSA: R5-E

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R6-F

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R7-G

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R8-H

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R9-I

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R10-J

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R11-K

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R12-L

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R13-M

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R14-N

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

DECIBEL - Assumptions for noise calculation

NSA: R15-O

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R16-P

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R17-Q

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R18-R

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R19-S

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R20-T

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R21-U

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R22-V

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R23-W

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R24-X

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

DECIBEL - Assumptions for noise calculation

NSA: R25-Y

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R26-Z

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R27-AA

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R28-AB

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R29-AC

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R30-AD

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R31-AE

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R32-AF

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R33-AG

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R34-AH

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

DECIBEL - Assumptions for noise calculation

NSA: R35-AI

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R36-AJ

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R37-AK

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R38-AL

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R39-AM

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R40-AN

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R41-AO

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R42-AP

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R43-AQ

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R44-AR

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

DECIBEL - Assumptions for noise calculation

NSA: R45-AS

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R46-AT

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R47-AU

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R48-AV

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R49-AW

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R50-AX

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R51-AY

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R52-AZ

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R53-BA

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R54-BB

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

DECIBEL - Assumptions for noise calculation

NSA: R55-BC

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R56-BD

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R57-BE

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R58-BF

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R59-BG

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R60-BH

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R61-BI

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R62-BJ

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R63-BK

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R64-BL

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

DECIBEL - Assumptions for noise calculation

NSA: R65-BM

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R66-BN

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R67-BO

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R68-BP

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R69-BQ

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R70-BR

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R71-BS

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R72-BT

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R73-BU

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R74-BV

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

DECIBEL - Assumptions for noise calculation

NSA: R75-BW

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R76-BX

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R77-BY

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R78-BZ

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R79-CA

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R80-CB

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R81-CC

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R82-CD

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R83-CE

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R84-CF

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

DECIBEL - Assumptions for noise calculation

NSA: R85-CG

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R86-CH

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R87-CI

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R88-CJ

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R89-CK

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R90-CL

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R91-CM

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R92-CN

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R93-CO

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R94-CP

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

DECIBEL - Assumptions for noise calculation

NSA: R95-CQ

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R96-CR

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R97-CS

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R98-CT

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R99-CU

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R100-CV

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R101-CW

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R102-CX

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R103-CY

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R104-CZ

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

DECIBEL - Assumptions for noise calculation

NSA: R105-DA

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R106-DB

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R107-DC

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R108-DD

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R109-DE

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R110-DF

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R111-DG

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R112-DH

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R113-DI

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R114-DJ

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

DECIBEL - Assumptions for noise calculation

NSA: R115-DK

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)
No distance demand

NSA: R116-DL

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)
No distance demand

NSA: R117-DM

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)
No distance demand

NSA: R118-DN

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)
No distance demand

NSA: R119-DO

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)
No distance demand

NSA: R120-DP

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)
No distance demand

NSA: R121-DQ

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)
No distance demand

NSA: R122-DR

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)
No distance demand

NSA: R123-DS

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)
No distance demand

NSA: R124-DT

Predefined calculation standard:

Imission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)
No distance demand

DECIBEL - Assumptions for noise calculation

NSA: R125-DU

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R126-DV

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R127-DW

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R128-DX

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R129-DY

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R130-DZ

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R131-EA

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R132-EB

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R133-EC

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R134-ED

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

DECIBEL - Assumptions for noise calculation

NSA: R135-EE

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R136-EF

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R137-EG

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R138-EH

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R139-EI

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R140-EJ

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R141-EK

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R142-EL

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R143-EM

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R144-EN

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

DECIBEL - Assumptions for noise calculation

NSA: R145-EO

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R146-EP

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R147-EO

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R148-ER

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R149-ES

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R150-ET

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R151-EU

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R152-EV

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R153-EW

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R154-EX

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

DECIBEL - Assumptions for noise calculation

NSA: R155-EY

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R156-EZ

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R157-FA

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R158-FB

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R159-FC

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R160-FD

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R161-FE

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R162-FF

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R163-FG

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R164-FH

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

DECIBEL - Assumptions for noise calculation

NSA: R165-FI

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R166-FJ

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R167-FK

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R168-FL

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R169-FM

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R170-FN

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R171-FO

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R172-FP

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R173-FQ

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R174-FR

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

DECIBEL - Assumptions for noise calculation

NSA: R175-FS

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R176-FT

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R177-FU

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R178-FV

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R179-FW

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R180-FX

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R181-FY

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R182-FZ

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R183-GA

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R184-GB

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

DECIBEL - Assumptions for noise calculation

NSA: R185-GC

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R186-GD

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R187-GE

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R188-GF

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R189-GG

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R190-GH

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R191-GI

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R192-GJ

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R193-GK

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

NSA: R194-GL

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 40.0 dB(A)

No distance demand

DECIBEL - Main Result

Noise calculation model:

ISO 9613-2 General

Wind speed:

10.0 m/s

Ground attenuation:

General, fixed, Ground factor: 0.7

Meteorological coefficient, CO:

0.0 dB

Type of demand in calculation:

1: WTG noise is compared to demand (DK, DE, SE, NL etc.)

Noise values in calculation:

All noise values are mean values (Lwa) (Normal)

Pure tones:

Pure tone penalty is subtracted from demand: 0.0 dB(A)

Height above ground level, when no value in NSA object:

4.5 m Allow override of model height with height from NSA object

Deviation from "official" noise demands. Negative is more restrictive, positive is less restrictive.:

0.0 dB(A)

WTGs

| Easting | Northing | Z | Row data/Description | WTG type | | | Power, rated [kW] | Rotor diameter [m] | Hub height [m] | Noise data | | | Wind speed [m/s] | LwA,ref [dB(A)] | Pure tones |
|---------|----------|-----------|----------------------|----------|-----------|-------------------|-------------------|--------------------|----------------|------------|---|------|------------------|-----------------|------------|
| | | | | Valid | Manufact. | Type-generator | | | | Creator | Name | | | | |
| [m] | | | | | | | | | | | | | | | |
| WTG 01 | 418,773 | 4,976,116 | 140.0 WTG 01 | Yes | ENERCON | E-92 2,3 MW-2,350 | 2,350 | 92.0 | 98.4 | USER | Level 0 - official - OM 0s - 2350kW - 01/2015 | 10.0 | 105.0 | No h | |
| WTG 02 | 418,906 | 4,975,854 | 150.0 WTG 02 | Yes | ENERCON | E-92 2,3 MW-2,350 | 2,350 | 92.0 | 98.4 | USER | Level 0 - official - OM 0s - 2350kW - 01/2015 | 10.0 | 105.0 | No h | |
| WTG 03 | 419,554 | 4,975,592 | 175.0 WTG 03 | Yes | ENERCON | E-92 2,3 MW-2,350 | 2,350 | 92.0 | 98.4 | USER | Level 0 - official - OM 0s - 2350kW - 01/2015 | 10.0 | 105.0 | No h | |
| WTG 04 | 419,878 | 4,975,768 | 175.0 WTG 04 | Yes | ENERCON | E-92 2,3 MW-2,350 | 2,350 | 92.0 | 98.4 | USER | Level 0 - official - OM 0s - 2350kW - 01/2015 | 10.0 | 105.0 | No h | |
| WTG 05 | 420,229 | 4,975,918 | 175.0 WTG 05 | Yes | ENERCON | E-92 2,3 MW-2,350 | 2,350 | 92.0 | 98.4 | USER | Level 0 - official - OM 0s - 2350kW - 01/2015 | 10.0 | 105.0 | No h | |
| WTG 06 | 420,715 | 4,975,364 | 168.5 WTG 06 | Yes | ENERCON | E-92 2,3 MW-2,350 | 2,350 | 92.0 | 98.4 | USER | Level 0 - official - OM 0s - 2350kW - 01/2015 | 10.0 | 105.0 | No h | |
| WTG 07 | 421,084 | 4,975,355 | 173.0 WTG 07 | Yes | ENERCON | E-92 2,3 MW-2,350 | 2,350 | 92.0 | 98.4 | USER | Level 0 - official - OM 0s - 2350kW - 01/2015 | 10.0 | 105.0 | No h | |
| WTG 08 | 419,346 | 4,974,948 | 175.0 WTG 08 | Yes | ENERCON | E-92 2,3 MW-2,350 | 2,350 | 92.0 | 98.4 | USER | Level 0 - official - OM 0s - 2350kW - 01/2015 | 10.0 | 105.0 | No h | |
| WTG 09 | 418,226 | 4,974,525 | 158.5 WTG 09 | Yes | ENERCON | E-92 2,3 MW-2,350 | 2,350 | 92.0 | 98.4 | USER | Level 0 - official - OM 0s - 2350kW - 01/2015 | 10.0 | 105.0 | No h | |
| WTG 10 | 418,572 | 4,973,976 | 180.0 WTG 10 | Yes | ENERCON | E-92 2,3 MW-2,350 | 2,350 | 92.0 | 98.4 | USER | Level 0 - official - OM 0s - 2350kW - 01/2015 | 10.0 | 105.0 | No h | |
| WTG 11 | 417,798 | 4,974,401 | 143.5 WTG 11 | Yes | ENERCON | E-92 2,3 MW-2,350 | 2,350 | 92.0 | 98.4 | USER | Level 0 - official - OM 0s - 2350kW - 01/2015 | 10.0 | 105.0 | No h | |
| WTG 12 | 418,498 | 4,974,577 | 162.3 WTG 12 | Yes | ENERCON | E-92 2,3 MW-2,350 | 2,350 | 92.0 | 98.4 | USER | Level 0 - official - OM 0s - 2350kW - 01/2015 | 10.0 | 105.0 | No h | |
| WTG 13 | 419,221 | 4,974,483 | 179.5 WTG 13 | Yes | ENERCON | E-92 2,3 MW-2,350 | 2,350 | 92.0 | 98.4 | USER | Level 0 - official - OM 0s - 2350kW - 01/2015 | 10.0 | 105.0 | No h | |
| WTG 14 | 419,425 | 4,973,918 | 180.0 WTG 14 | Yes | ENERCON | E-92 2,3 MW-2,350 | 2,350 | 92.0 | 98.4 | USER | Level 0 - official - OM 0s - 2350kW - 01/2015 | 10.0 | 105.0 | No h | |

h) Generic octave distribution used

Calculation Results

Sound level

| No. | Name | Easting | Northing | Z | Immission height [m] | Demands | | Sound level | | Demands fulfilled ? | |
|-------|---------|-----------|----------|---|----------------------|-----------|------------------------------|---------------|---------|---------------------|--|
| | | | | | | From WTGs | Distance to noise demand [m] | Noise [dB(A)] | [dB(A)] | Noise | |
| A R1 | 420,545 | 4,977,343 | 84.6 | | 4.5 | 40.0 | 821 | 33.6 | | Yes | |
| B R2 | 420,326 | 4,977,411 | 86.6 | | 4.5 | 40.0 | 841 | 33.6 | | Yes | |
| C R3 | 420,939 | 4,977,369 | 55.0 | | 4.5 | 40.0 | 985 | 32.6 | | Yes | |
| D R4 | 417,897 | 4,977,695 | 60.0 | | 4.5 | 40.0 | 1,238 | 30.9 | | Yes | |
| E R5 | 420,380 | 4,977,102 | 100.0 | | 4.5 | 40.0 | 547 | 35.4 | | Yes | |
| F R6 | 418,854 | 4,977,641 | 61.5 | | 4.5 | 40.0 | 932 | 32.8 | | Yes | |
| G R7 | 421,241 | 4,976,854 | 64.6 | | 4.5 | 40.0 | 719 | 34.3 | | Yes | |
| H R8 | 420,728 | 4,977,511 | 75.0 | | 4.5 | 40.0 | 1,036 | 32.4 | | Yes | |
| I R9 | 420,067 | 4,977,514 | 85.0 | | 4.5 | 40.0 | 919 | 33.4 | | Yes | |
| J R10 | 420,327 | 4,977,127 | 103.3 | | 4.5 | 40.0 | 561 | 35.3 | | Yes | |
| K R11 | 420,359 | 4,977,427 | 85.2 | | 4.5 | 40.0 | 862 | 33.5 | | Yes | |
| L R12 | 420,523 | 4,977,364 | 85.0 | | 4.5 | 40.0 | 835 | 33.6 | | Yes | |
| M R13 | 420,460 | 4,977,354 | 88.9 | | 4.5 | 40.0 | 810 | 33.7 | | Yes | |
| N R14 | 420,807 | 4,977,526 | 69.2 | | 4.5 | 40.0 | 1,077 | 32.2 | | Yes | |
| O R15 | 419,724 | 4,977,674 | 74.1 | | 4.5 | 40.0 | 1,084 | 32.8 | | Yes | |
| P R16 | 420,867 | 4,977,655 | 61.0 | | 4.5 | 40.0 | 1,219 | 31.5 | | Yes | |
| Q R17 | 419,626 | 4,977,807 | 70.0 | | 4.5 | 40.0 | 1,211 | 32.1 | | Yes | |
| R R18 | 421,118 | 4,977,148 | 65.6 | | 4.5 | 40.0 | 881 | 33.2 | | Yes | |
| S R19 | 417,986 | 4,975,420 | 82.2 | | 4.5 | 40.0 | 12 | 39.9 | | Yes | |
| T R20 | 421,204 | 4,976,998 | 64.6 | | 4.5 | 40.0 | 809 | 33.7 | | Yes | |
| U R21 | 421,312 | 4,976,707 | 62.7 | | 4.5 | 40.0 | 650 | 34.8 | | Yes | |
| V R22 | 420,861 | 4,977,457 | 58.8 | | 4.5 | 40.0 | 1,033 | 32.4 | | Yes | |
| W R23 | 420,580 | 4,977,347 | 81.4 | | 4.5 | 40.0 | 834 | 33.6 | | Yes | |
| X R24 | 420,392 | 4,977,189 | 98.3 | | 4.5 | 40.0 | 634 | 34.8 | | Yes | |
| Y R25 | 420,648 | 4,977,503 | 75.6 | | 4.5 | 40.0 | 1,003 | 32.6 | | Yes | |

To be continued on next page...

DECIBEL - Main Result

...continued from previous page

| Noise sensitive area | | | Z | Immission height | Demands | Sound level | Demands fulfilled ? | | |
|----------------------|------|---------|-----------|------------------|---------|---------------|---------------------|------------------------------|-------|
| No. | Name | Easting | Northing | [m] | [m] | Noise [dB(A)] | From WTGs [dB(A)] | Distance to noise demand [m] | Noise |
| Z R26 | | 419,640 | 4,977,768 | 70.0 | 4.5 | 40.0 | 32.3 | 1,176 | Yes |
| AA R27 | | 420,386 | 4,977,443 | 83.7 | 4.5 | 40.0 | 33.4 | 882 | Yes |
| AB R28 | | 421,284 | 4,977,783 | 60.6 | 4.5 | 40.0 | 34.5 | 692 | Yes |
| AC R29 | | 420,568 | 4,977,279 | 81.0 | 4.5 | 40.0 | 34.0 | 766 | Yes |
| AD R30 | | 417,908 | 4,977,694 | 60.0 | 4.5 | 40.0 | 30.9 | 1,232 | Yes |
| AE R31 | | 418,650 | 4,977,616 | 66.7 | 4.5 | 40.0 | 32.7 | 920 | Yes |
| AF R32 | | 420,935 | 4,977,648 | 60.0 | 4.5 | 40.0 | 31.4 | 1,238 | Yes |
| AG R33 | | 418,827 | 4,977,616 | 64.3 | 4.5 | 40.0 | 32.9 | 908 | Yes |
| AH R34 | | 420,405 | 4,977,432 | 84.8 | 4.5 | 40.0 | 33.4 | 875 | Yes |
| AI R35 | | 420,195 | 4,977,455 | 87.5 | 4.5 | 40.0 | 33.6 | 869 | Yes |
| AJ R36 | | 420,479 | 4,977,407 | 84.5 | 4.5 | 40.0 | 33.4 | 866 | Yes |
| AK R37 | | 421,225 | 4,977,045 | 61.3 | 4.5 | 40.0 | 33.4 | 859 | Yes |
| AL R38 | | 420,516 | 4,977,224 | 84.7 | 4.5 | 40.0 | 34.4 | 698 | Yes |
| AM R39 | | 419,930 | 4,977,441 | 85.8 | 4.5 | 40.0 | 33.9 | 846 | Yes |
| AN R40 | | 420,246 | 4,977,472 | 80.0 | 4.5 | 40.0 | 33.4 | 891 | Yes |
| AO R41 | | 420,438 | 4,977,443 | 83.3 | 4.5 | 40.0 | 33.3 | 892 | Yes |
| AP R42 | | 419,635 | 4,977,671 | 74.8 | 4.5 | 40.0 | 32.8 | 1,079 | Yes |
| AQ R43 | | 420,817 | 4,977,499 | 66.4 | 4.5 | 40.0 | 32.3 | 1,056 | Yes |
| AR R44 | | 421,200 | 4,976,903 | 66.4 | 4.5 | 40.0 | 34.2 | 731 | Yes |
| AS R45 | | 418,918 | 4,977,812 | 60.4 | 4.5 | 40.0 | 32.0 | 1,104 | Yes |
| AT R46 | | 420,812 | 4,977,541 | 69.1 | 4.5 | 40.0 | 32.1 | 1,093 | Yes |
| AU R47 | | 420,450 | 4,977,266 | 92.3 | 4.5 | 40.0 | 34.3 | 722 | Yes |
| AV R48 | | 421,087 | 4,977,193 | 65.3 | 4.5 | 40.0 | 33.1 | 903 | Yes |
| AW R49 | | 420,922 | 4,977,752 | 61.5 | 4.5 | 40.0 | 30.9 | 1,330 | Yes |
| AX R50 | | 420,710 | 4,977,428 | 75.0 | 4.5 | 40.0 | 32.9 | 952 | Yes |
| AY R51 | | 420,245 | 4,977,521 | 80.0 | 4.5 | 40.0 | 33.1 | 939 | Yes |
| AZ R52 | | 419,049 | 4,977,992 | 61.2 | 4.5 | 40.0 | 31.2 | 1,290 | Yes |
| BA R53 | | 420,476 | 4,977,427 | 83.1 | 4.5 | 40.0 | 33.3 | 885 | Yes |
| BB R54 | | 420,483 | 4,977,200 | 86.6 | 4.5 | 40.0 | 34.6 | 666 | Yes |
| BC R55 | | 419,715 | 4,977,651 | 76.1 | 4.5 | 40.0 | 32.9 | 1,061 | Yes |
| BD R56 | | 420,431 | 4,977,136 | 92.3 | 4.5 | 40.0 | 35.1 | 591 | Yes |
| BE R57 | | 420,534 | 4,977,462 | 79.5 | 4.5 | 40.0 | 33.0 | 933 | Yes |
| BF R58 | | 420,327 | 4,977,498 | 80.0 | 4.5 | 40.0 | 33.2 | 927 | Yes |
| BG R59 | | 421,321 | 4,976,635 | 64.8 | 4.5 | 40.0 | 35.1 | 599 | Yes |
| BH R60 | | 421,216 | 4,977,088 | 59.3 | 4.5 | 40.0 | 33.2 | 888 | Yes |
| BI R61 | | 421,193 | 4,977,109 | 60.4 | 4.5 | 40.0 | 33.2 | 892 | Yes |
| BJ R62 | | 420,458 | 4,977,427 | 83.7 | 4.5 | 40.0 | 33.3 | 881 | Yes |
| BK R63 | | 420,543 | 4,977,141 | 86.8 | 4.5 | 40.0 | 34.8 | 626 | Yes |
| BL R64 | | 420,522 | 4,977,121 | 89.4 | 4.5 | 40.0 | 35.0 | 601 | Yes |
| BM R65 | | 421,180 | 4,976,864 | 72.1 | 4.5 | 40.0 | 34.5 | 688 | Yes |
| BN R66 | | 420,486 | 4,977,451 | 81.1 | 4.5 | 40.0 | 33.2 | 910 | Yes |
| BO R67 | | 420,600 | 4,977,380 | 79.5 | 4.5 | 40.0 | 33.3 | 871 | Yes |
| BP R68 | | 420,145 | 4,977,555 | 82.3 | 4.5 | 40.0 | 33.1 | 964 | Yes |
| BQ R69 | | 420,539 | 4,977,222 | 81.7 | 4.5 | 40.0 | 34.3 | 703 | Yes |
| BR R70 | | 417,970 | 4,975,400 | 81.7 | 4.5 | 40.0 | 39.9 | 12 | Yes |
| BS R71 | | 420,482 | 4,977,348 | 88.0 | 4.5 | 40.0 | 33.7 | 809 | Yes |
| BT R72 | | 420,737 | 4,977,465 | 73.6 | 4.5 | 40.0 | 32.6 | 995 | Yes |
| BU R73 | | 420,319 | 4,977,458 | 80.0 | 4.5 | 40.0 | 33.4 | 886 | Yes |
| BV R74 | | 420,929 | 4,977,707 | 61.0 | 4.5 | 40.0 | 31.1 | 1,290 | Yes |
| BW R75 | | 420,562 | 4,977,325 | 82.9 | 4.5 | 40.0 | 33.7 | 808 | Yes |
| BX R76 | | 421,255 | 4,976,868 | 61.7 | 4.5 | 40.0 | 34.2 | 739 | Yes |
| BY R77 | | 420,353 | 4,977,183 | 101.8 | 4.5 | 40.0 | 34.9 | 621 | Yes |
| BZ R78 | | 420,665 | 4,977,095 | 89.8 | 4.5 | 40.0 | 34.8 | 624 | Yes |
| CA R79 | | 420,434 | 4,977,408 | 86.4 | 4.5 | 40.0 | 33.5 | 857 | Yes |
| CB R80 | | 421,113 | 4,976,899 | 74.2 | 4.5 | 40.0 | 34.5 | 675 | Yes |
| CC R81 | | 420,319 | 4,977,276 | 99.9 | 4.5 | 40.0 | 34.4 | 706 | Yes |
| CD R82 | | 420,397 | 4,977,129 | 96.2 | 4.5 | 40.0 | 35.2 | 577 | Yes |
| CE R83 | | 421,163 | 4,977,125 | 62.7 | 4.5 | 40.0 | 33.2 | 888 | Yes |
| CF R84 | | 420,392 | 4,977,493 | 80.0 | 4.5 | 40.0 | 33.1 | 933 | Yes |
| CG R85 | | 420,554 | 4,977,472 | 78.7 | 4.5 | 40.0 | 32.9 | 947 | Yes |
| CH R86 | | 421,174 | 4,977,105 | 63.3 | 4.5 | 40.0 | 33.3 | 877 | Yes |
| CI R87 | | 421,391 | 4,976,481 | 70.0 | 4.5 | 40.0 | 35.6 | 512 | Yes |
| CJ R88 | | 421,416 | 4,976,616 | 56.8 | 4.5 | 40.0 | 34.8 | 639 | Yes |
| CK R89 | | 420,724 | 4,977,456 | 74.6 | 4.5 | 40.0 | 32.7 | 983 | Yes |
| CL R90 | | 418,981 | 4,977,976 | 53.3 | 4.5 | 40.0 | 31.2 | 1,271 | Yes |

To be continued on next page...

DECIBEL - Main Result

...continued from previous page

| Noise sensitive area | | | Z | Immission height | Demands | Sound level | Demands fulfilled ? | | |
|----------------------|------|---------|-----------|------------------|---------|---------------|---------------------|------------------------------|-------|
| No. | Name | Easting | Northing | [m] | [m] | Noise [dB(A)] | From WTGs [dB(A)] | Distance to noise demand [m] | Noise |
| CM R91 | | 421,199 | 4,976,960 | 63.9 | 4.5 | 40.0 | 33.9 | 776 | Yes |
| CN R92 | | 421,236 | 4,977,048 | 59.5 | 4.5 | 40.0 | 33.4 | 868 | Yes |
| CO R93 | | 419,642 | 4,977,829 | 70.0 | 4.5 | 40.0 | 32.0 | 1,236 | Yes |
| CP R94 | | 420,392 | 4,977,479 | 80.1 | 4.5 | 40.0 | 33.2 | 919 | Yes |
| CQ R95 | | 418,936 | 4,977,775 | 65.0 | 4.5 | 40.0 | 32.2 | 1,068 | Yes |
| CR R96 | | 420,800 | 4,977,377 | 64.0 | 4.5 | 40.0 | 32.9 | 936 | Yes |
| CS R97 | | 420,799 | 4,977,515 | 69.2 | 4.5 | 40.0 | 32.3 | 1,064 | Yes |
| CT R98 | | 420,840 | 4,977,676 | 61.8 | 4.5 | 40.0 | 31.4 | 1,229 | Yes |
| CU R99 | | 421,247 | 4,976,980 | 58.7 | 4.5 | 40.0 | 33.7 | 821 | Yes |
| CV R100 | | 420,685 | 4,977,118 | 88.2 | 4.5 | 40.0 | 34.6 | 653 | Yes |
| CW R101 | | 421,225 | 4,976,812 | 69.9 | 4.5 | 40.0 | 34.6 | 676 | Yes |
| CX R102 | | 420,446 | 4,977,142 | 90.3 | 4.5 | 40.0 | 35.0 | 601 | Yes |
| CY R103 | | 420,447 | 4,977,173 | 89.6 | 4.5 | 40.0 | 34.8 | 631 | Yes |
| CZ R104 | | 419,714 | 4,977,685 | 73.1 | 4.5 | 40.0 | 32.7 | 1,095 | Yes |
| DA R105 | | 418,814 | 4,977,606 | 65.0 | 4.5 | 40.0 | 33.0 | 898 | Yes |
| DB R106 | | 420,705 | 4,977,438 | 75.0 | 4.5 | 40.0 | 32.8 | 959 | Yes |
| DC R107 | | 420,192 | 4,977,650 | 85.0 | 4.5 | 40.0 | 32.5 | 1,063 | Yes |
| DD R108 | | 420,335 | 4,977,252 | 101.2 | 4.5 | 40.0 | 34.5 | 685 | Yes |
| DE R109 | | 420,840 | 4,977,404 | 59.9 | 4.5 | 40.0 | 32.7 | 976 | Yes |
| DF R110 | | 419,923 | 4,977,516 | 83.6 | 4.5 | 40.0 | 33.5 | 921 | Yes |
| DG R111 | | 421,244 | 4,976,904 | 61.1 | 4.5 | 40.0 | 34.0 | 760 | Yes |
| DH R112 | | 420,533 | 4,977,407 | 83.0 | 4.5 | 40.0 | 33.3 | 879 | Yes |
| DI R113 | | 418,980 | 4,977,958 | 55.3 | 4.5 | 40.0 | 31.3 | 1,253 | Yes |
| DJ R114 | | 419,641 | 4,977,817 | 70.0 | 4.5 | 40.0 | 32.1 | 1,224 | Yes |
| DK R115 | | 420,352 | 4,977,491 | 80.0 | 4.5 | 40.0 | 33.2 | 924 | Yes |
| DL R116 | | 421,290 | 4,976,748 | 63.9 | 4.5 | 40.0 | 34.7 | 668 | Yes |
| DM R117 | | 420,415 | 4,977,498 | 80.0 | 4.5 | 40.0 | 33.0 | 942 | Yes |
| DN R118 | | 421,069 | 4,977,184 | 69.0 | 4.5 | 40.0 | 33.2 | 886 | Yes |
| DO R119 | | 420,957 | 4,977,655 | 57.8 | 4.5 | 40.0 | 31.3 | 1,253 | Yes |
| DP R120 | | 420,495 | 4,977,344 | 87.5 | 4.5 | 40.0 | 33.7 | 809 | Yes |
| DQ R121 | | 420,256 | 4,977,655 | 81.6 | 4.5 | 40.0 | 32.4 | 1,074 | Yes |
| DR R122 | | 420,901 | 4,977,618 | 60.0 | 4.5 | 40.0 | 31.6 | 1,197 | Yes |
| DS R123 | | 420,678 | 4,977,473 | 75.1 | 4.5 | 40.0 | 32.7 | 984 | Yes |
| DT R124 | | 420,644 | 4,977,425 | 77.2 | 4.5 | 40.0 | 33.0 | 928 | Yes |
| DU R125 | | 421,254 | 4,976,930 | 58.0 | 4.5 | 40.0 | 33.9 | 786 | Yes |
| DV R126 | | 419,903 | 4,977,546 | 82.0 | 4.5 | 40.0 | 33.3 | 951 | Yes |
| DW R127 | | 419,765 | 4,977,548 | 81.8 | 4.5 | 40.0 | 33.4 | 957 | Yes |
| DX R128 | | 420,359 | 4,977,278 | 97.6 | 4.5 | 40.0 | 34.4 | 715 | Yes |
| DY R129 | | 420,419 | 4,977,417 | 86.2 | 4.5 | 40.0 | 33.5 | 863 | Yes |
| DZ R130 | | 420,226 | 4,977,460 | 84.4 | 4.5 | 40.0 | 33.5 | 877 | Yes |
| EA R131 | | 420,420 | 4,977,388 | 88.8 | 4.5 | 40.0 | 33.6 | 835 | Yes |
| EB R132 | | 419,687 | 4,977,685 | 73.2 | 4.5 | 40.0 | 32.7 | 1,095 | Yes |
| EC R133 | | 420,522 | 4,977,298 | 85.7 | 4.5 | 40.0 | 33.9 | 771 | Yes |
| ED R134 | | 420,344 | 4,977,451 | 81.5 | 4.5 | 40.0 | 33.4 | 883 | Yes |
| EE R135 | | 420,754 | 4,977,480 | 72.4 | 4.5 | 40.0 | 32.5 | 1,015 | Yes |
| EF R136 | | 419,630 | 4,977,687 | 73.0 | 4.5 | 40.0 | 32.7 | 1,094 | Yes |
| EG R137 | | 420,990 | 4,977,744 | 60.0 | 4.5 | 40.0 | 30.8 | 1,348 | Yes |
| EH R138 | | 420,634 | 4,977,359 | 77.3 | 4.5 | 40.0 | 33.4 | 862 | Yes |
| EI R139 | | 420,498 | 4,977,386 | 85.0 | 4.5 | 40.0 | 33.5 | 850 | Yes |
| EJ R140 | | 420,399 | 4,977,439 | 84.1 | 4.5 | 40.0 | 33.4 | 881 | Yes |
| EK R141 | | 420,785 | 4,977,558 | 70.0 | 4.5 | 40.0 | 32.1 | 1,099 | Yes |
| EL R142 | | 421,276 | 4,976,801 | 61.2 | 4.5 | 40.0 | 34.4 | 700 | Yes |
| EM R143 | | 420,927 | 4,977,624 | 57.8 | 4.5 | 40.0 | 31.5 | 1,213 | Yes |
| EN R144 | | 420,341 | 4,977,296 | 97.0 | 4.5 | 40.0 | 34.3 | 730 | Yes |
| EO R145 | | 420,940 | 4,977,349 | 55.0 | 4.5 | 40.0 | 32.7 | 968 | Yes |
| EP R146 | | 421,380 | 4,976,500 | 70.0 | 4.5 | 40.0 | 35.6 | 522 | Yes |
| EQ R147 | | 421,317 | 4,976,579 | 69.3 | 4.5 | 40.0 | 35.4 | 552 | Yes |
| ER R148 | | 420,453 | 4,977,336 | 90.1 | 4.5 | 40.0 | 33.9 | 791 | Yes |
| ES R149 | | 420,720 | 4,977,492 | 75.0 | 4.5 | 40.0 | 32.5 | 1,015 | Yes |
| ET R150 | | 421,132 | 4,977,146 | 64.1 | 4.5 | 40.0 | 33.2 | 887 | Yes |
| EU R151 | | 421,127 | 4,976,911 | 71.5 | 4.5 | 40.0 | 34.4 | 693 | Yes |
| EV R152 | | 417,888 | 4,977,696 | 60.0 | 4.5 | 40.0 | 30.8 | 1,243 | Yes |
| EW R153 | | 420,427 | 4,977,468 | 81.2 | 4.5 | 40.0 | 33.2 | 915 | Yes |
| EX R154 | | 420,406 | 4,977,419 | 86.1 | 4.5 | 40.0 | 33.5 | 862 | Yes |
| EY R155 | | 420,406 | 4,977,375 | 90.0 | 4.5 | 40.0 | 33.7 | 819 | Yes |

To be continued on next page...

DECIBEL - Main Result

...continued from previous page

| Noise sensitive area | | | Z [m] | Immission height [m] | Demands | | Sound level | | Demands fulfilled ? | | |
|----------------------|---------|-----------|----------|-------------------------|------------------|----------------------|---------------------------------|-------|---------------------|-----|--|
| No. | Name | Easting | Northing | | Noise [dB(A)] | From WTGs [dB(A)] | Distance to noise demand [m] | Noise | | | |
| EZ R156 | 420,458 | 4,977,385 | 87.2 | | 4.5 | 40.0 | 33.6 | | 840 | Yes | |
| FA R157 | 420,407 | 4,977,122 | 95.8 | | 4.5 | 40.0 | 35.2 | | 572 | Yes | |
| FB R158 | 420,605 | 4,977,317 | 78.4 | | 4.5 | 40.0 | 33.7 | | 813 | Yes | |
| FC R159 | 420,684 | 4,977,385 | 76.0 | | 4.5 | 40.0 | 33.1 | | 902 | Yes | |
| FD R160 | 420,747 | 4,977,519 | 72.9 | | 4.5 | 40.0 | 32.3 | | 1,050 | Yes | |
| FE R161 | 421,255 | 4,976,899 | 60.0 | | 4.5 | 40.0 | 34.0 | | 763 | Yes | |
| FF R162 | 420,771 | 4,977,496 | 71.3 | | 4.5 | 40.0 | 32.4 | | 1,036 | Yes | |
| FG R163 | 420,242 | 4,977,539 | 80.0 | | 4.5 | 40.0 | 33.1 | | 957 | Yes | |
| FH R164 | 420,631 | 4,977,411 | 77.7 | | 4.5 | 40.0 | 33.1 | | 910 | Yes | |
| FI R165 | 420,621 | 4,977,326 | 77.5 | | 4.5 | 40.0 | 33.6 | | 826 | Yes | |
| FJ R166 | 420,222 | 4,976,814 | 136.8 | | 4.5 | 40.0 | 37.8 | | 235 | Yes | |
| FK R167 | 420,207 | 4,976,812 | 136.7 | | 4.5 | 40.0 | 37.8 | | 231 | Yes | |
| FL R168 | 420,322 | 4,977,250 | 102.1 | | 4.5 | 40.0 | 34.6 | | 681 | Yes | |
| FM R169 | 420,329 | 4,977,233 | 102.5 | | 4.5 | 40.0 | 34.7 | | 666 | Yes | |
| FN R170 | 420,476 | 4,977,192 | 86.6 | | 4.5 | 40.0 | 34.6 | | 657 | Yes | |
| FO R171 | 420,432 | 4,977,527 | 80.0 | | 4.5 | 40.0 | 32.9 | | 973 | Yes | |
| FP R172 | 420,916 | 4,977,697 | 61.1 | | 4.5 | 40.0 | 31.2 | | 1,276 | Yes | |
| FQ R173 | 420,252 | 4,977,695 | 82.9 | | 4.5 | 40.0 | 32.2 | | 1,113 | Yes | |
| FR R174 | 420,214 | 4,977,655 | 85.0 | | 4.5 | 40.0 | 32.5 | | 1,070 | Yes | |
| FS R175 | 421,235 | 4,976,963 | 60.0 | | 4.5 | 40.0 | 33.8 | | 800 | Yes | |
| FT R176 | 421,274 | 4,976,763 | 64.8 | | 4.5 | 40.0 | 34.6 | | 670 | Yes | |
| FU R177 | 421,239 | 4,976,781 | 69.3 | | 4.5 | 40.0 | 34.7 | | 661 | Yes | |
| FV R178 | 421,417 | 4,976,639 | 55.0 | | 4.5 | 40.0 | 34.7 | | 658 | Yes | |
| FW R179 | 418,668 | 4,977,603 | 67.4 | | 4.5 | 40.0 | 32.8 | | 905 | Yes | |
| FX R180 | 419,640 | 4,977,874 | 67.9 | | 4.5 | 40.0 | 31.8 | | 1,280 | Yes | |
| FY R181 | 419,626 | 4,977,846 | 70.0 | | 4.5 | 40.0 | 31.9 | | 1,249 | Yes | |
| FZ R182 | 419,632 | 4,977,766 | 70.0 | | 4.5 | 40.0 | 32.3 | | 1,172 | Yes | |
| GA R183 | 419,673 | 4,977,570 | 81.0 | | 4.5 | 40.0 | 33.4 | | 980 | Yes | |
| GB R184 | 419,612 | 4,977,606 | 79.4 | | 4.5 | 40.0 | 33.2 | | 1,011 | Yes | |
| GC R185 | 419,560 | 4,977,520 | 82.2 | | 4.5 | 40.0 | 33.7 | | 917 | Yes | |
| GD R186 | 419,500 | 4,977,445 | 85.0 | | 4.5 | 40.0 | 34.1 | | 830 | Yes | |
| GE R187 | 420,486 | 4,977,326 | 88.6 | | 4.5 | 40.0 | 33.9 | | 789 | Yes | |
| GF R188 | 420,732 | 4,977,555 | 72.2 | | 4.5 | 40.0 | 32.2 | | 1,079 | Yes | |
| GG R189 | 420,691 | 4,977,546 | 73.8 | | 4.5 | 40.0 | 32.3 | | 1,057 | Yes | |
| GH R190 | 415,921 | 4,974,400 | 86.2 | | 4.5 | 40.0 | 30.1 | | 1,324 | Yes | |
| GI R191 | 416,008 | 4,973,978 | 85.0 | | 4.5 | 40.0 | 30.2 | | 1,287 | Yes | |
| GJ R192 | 416,580 | 4,974,321 | 85.0 | | 4.5 | 40.0 | 33.8 | | 668 | Yes | |
| GK R193 | 418,875 | 4,971,688 | 155.0 | | 4.5 | 40.0 | 29.5 | | 1,659 | Yes | |
| GL R194 | 420,803 | 4,976,984 | 114.7 | | 4.5 | 40.0 | 35.1 | | 580 | Yes | |

Distances (m)

| WTG | | | | | | | | | | | | | | |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| NSA | WTG 08 | WTG 09 | WTG 10 | WTG 11 | WTG 12 | WTG 13 | WTG 14 | WTG 01 | WTG 02 | WTG 03 | WTG 04 | WTG 05 | WTG 06 | WTG 07 |
| A | 2678 | 3650 | 3902 | 4025 | 3441 | 3152 | 3603 | 2155 | 2214 | 2012 | 1710 | 1460 | 1986 | 2060 |
| B | 2651 | 3569 | 3857 | 3931 | 3372 | 3130 | 3607 | 2022 | 2107 | 1976 | 1703 | 1496 | 2084 | 2191 |
| C | 2898 | 3930 | 4137 | 4321 | 3709 | 3359 | 3769 | 2502 | 2535 | 2253 | 1921 | 1615 | 2017 | 2019 |
| D | 3106 | 3187 | 3780 | 3295 | 3175 | 3474 | 4074 | 1806 | 2099 | 2677 | 2764 | 2932 | 3657 | 3954 |
| E | 2389 | 3359 | 3611 | 3737 | 3149 | 2864 | 3324 | 1885 | 1931 | 1721 | 1425 | 1194 | 1770 | 1884 |
| F | 2738 | 3179 | 3676 | 3408 | 3085 | 3179 | 3767 | 1527 | 1788 | 2165 | 2135 | 2204 | 2941 | 3194 |
| G | 2688 | 3810 | 3925 | 4227 | 3565 | 3115 | 3452 | 2576 | 2540 | 2107 | 1743 | 1378 | 1580 | 1507 |
| H | 2912 | 3896 | 4141 | 4273 | 3685 | 3382 | 3822 | 2402 | 2463 | 2250 | 1939 | 1669 | 2147 | 2185 |
| I | 2665 | 3510 | 3841 | 3852 | 3330 | 3147 | 3653 | 1905 | 2026 | 1989 | 1756 | 1604 | 2246 | 2387 |
| J | 2390 | 3344 | 3607 | 3718 | 3138 | 2866 | 3333 | 1854 | 1908 | 1719 | 1431 | 1213 | 1805 | 1927 |
| K | 2678 | 3602 | 3886 | 3964 | 3404 | 3156 | 3631 | 2058 | 2141 | 2004 | 1727 | 1515 | 2093 | 2195 |
| L | 2687 | 3652 | 3910 | 4026 | 3445 | 3162 | 3617 | 2149 | 2212 | 2020 | 1721 | 1476 | 2009 | 2086 |
| M | 2651 | 3605 | 3870 | 3976 | 3400 | 3127 | 3588 | 2093 | 2160 | 1981 | 1689 | 1454 | 2006 | 2094 |
| N | 2963 | 3958 | 4195 | 4338 | 3745 | 3432 | 3864 | 2475 | 2532 | 2304 | 1988 | 1709 | 2164 | 2189 |
| O | 2752 | 3487 | 3873 | 3798 | 3331 | 3230 | 3768 | 1825 | 1995 | 2089 | 1912 | 1827 | 2514 | 2688 |
| P | 3105 | 4095 | 4336 | 4473 | 3884 | 3574 | 4006 | 2599 | 2663 | 2445 | 2130 | 1850 | 2296 | 2310 |
| Q | 2873 | 3568 | 3973 | 3866 | 3421 | 3349 | 3894 | 1894 | 2081 | 2216 | 2055 | 1983 | 2675 | 2853 |
| R | 2825 | 3904 | 4067 | 4309 | 3671 | 3271 | 3647 | 2562 | 2563 | 2206 | 1855 | 1518 | 1829 | 1793 |
| S | 1440 | 927 | 1558 | 1036 | 986 | 1550 | 2080 | 1051 | 1017 | 1577 | 1924 | 2298 | 2730 | 3099 |
| T | 2767 | 3871 | 4007 | 4283 | 3631 | 3203 | 3557 | 2586 | 2567 | 2168 | 1809 | 1455 | 1706 | 1647 |

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DECIBEL - Main Result*...continued from previous page*

| WTG | WTG 08 | WTG 09 | WTG 10 | WTG 11 | WTG 12 | WTG 13 | WTG 14 | WTG 01 | WTG 02 | WTG 03 | WTG 04 | WTG 05 | WTG 06 | WTG 07 |
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| U | 2638 | 3779 | 3869 | 4203 | 3529 | 3053 | 3367 | 2607 | 2553 | 2082 | 1714 | 1340 | 1470 | 1371 |
| V | 2931 | 3942 | 4166 | 4327 | 3725 | 3396 | 3819 | 2482 | 2528 | 2277 | 1954 | 1664 | 2098 | 2114 |
| W | 2698 | 3675 | 3924 | 4052 | 3465 | 3170 | 3618 | 2186 | 2243 | 2033 | 1728 | 1471 | 1988 | 2055 |
| X | 2473 | 3433 | 3693 | 3808 | 3226 | 2949 | 3411 | 1942 | 1998 | 1804 | 1511 | 1281 | 1853 | 1960 |
| Y | 2868 | 3839 | 4093 | 4212 | 3631 | 3340 | 3788 | 2332 | 2399 | 2202 | 1898 | 1639 | 2140 | 2192 |
| Z | 2835 | 3538 | 3940 | 3838 | 3389 | 3312 | 3856 | 1866 | 2050 | 2178 | 2014 | 1942 | 2633 | 2812 |
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| AB | 2669 | 3801 | 3903 | 4222 | 3554 | 3090 | 3415 | 2598 | 2553 | 2100 | 1734 | 1364 | 1529 | 1442 |
| AC | 2632 | 3615 | 3859 | 3994 | 3404 | 3104 | 3550 | 2139 | 2189 | 1968 | 1661 | 1403 | 1921 | 1992 |
| AD | 3100 | 3185 | 3777 | 3295 | 3172 | 3469 | 4069 | 1800 | 2093 | 2670 | 2755 | 2923 | 3648 | 3944 |
| AE | 2757 | 3120 | 3641 | 3326 | 3043 | 3185 | 3778 | 1505 | 1781 | 2217 | 2219 | 2319 | 3055 | 3322 |
| AF | 3133 | 4134 | 4367 | 4515 | 3920 | 3599 | 4024 | 2650 | 2708 | 2477 | 2157 | 1869 | 2295 | 2298 |
| AG | 2718 | 3149 | 3649 | 3376 | 3057 | 3158 | 3746 | 1501 | 1764 | 2151 | 2126 | 2202 | 2939 | 3195 |
| AH | 2700 | 3633 | 3912 | 3998 | 3433 | 3178 | 3648 | 2096 | 2176 | 2027 | 1745 | 1524 | 2091 | 2185 |
| AI | 2647 | 3530 | 3839 | 3882 | 3341 | 3128 | 3620 | 1953 | 2055 | 1970 | 1717 | 1537 | 2155 | 2280 |
| AJ | 2707 | 3658 | 3925 | 4028 | 3454 | 3183 | 3645 | 2139 | 2210 | 2037 | 1746 | 1510 | 2057 | 2139 |
| AK | 2816 | 3917 | 4057 | 4328 | 3678 | 3253 | 3608 | 2622 | 2607 | 2214 | 1856 | 1504 | 1757 | 1696 |
| AL | 2559 | 3540 | 3785 | 3919 | 3329 | 3032 | 3481 | 2065 | 2114 | 1894 | 1590 | 1337 | 1871 | 1953 |
| AM | 2560 | 3377 | 3722 | 3713 | 3202 | 3042 | 3559 | 1759 | 1889 | 1887 | 1674 | 1552 | 2220 | 2384 |
| AN | 2680 | 3573 | 3876 | 3927 | 3382 | 3160 | 3648 | 2002 | 2101 | 2003 | 1743 | 1554 | 2160 | 2277 |
| AO | 2724 | 3662 | 3937 | 4028 | 3461 | 3200 | 3668 | 2129 | 2207 | 2051 | 1766 | 1539 | 2097 | 2186 |
| AP | 2738 | 3447 | 3845 | 3751 | 3296 | 3215 | 3759 | 1778 | 1958 | 2081 | 1918 | 1851 | 2547 | 2732 |
| AQ | 2945 | 3944 | 4178 | 4326 | 3730 | 3412 | 3842 | 2468 | 2521 | 2287 | 1969 | 1687 | 2137 | 2161 |
| AR | 2694 | 3808 | 3934 | 4223 | 3565 | 3126 | 3473 | 2551 | 2522 | 2104 | 1742 | 1383 | 1614 | 1552 |
| AS | 2896 | 3359 | 3852 | 3590 | 3262 | 3343 | 3927 | 1702 | 1958 | 2309 | 2258 | 2303 | 3037 | 3275 |
| AT | 2979 | 3973 | 4210 | 4352 | 3760 | 3447 | 3879 | 2488 | 2545 | 2320 | 2004 | 1725 | 2179 | 2203 |
| AU | 2567 | 3530 | 3788 | 3904 | 3323 | 3042 | 3501 | 2033 | 2092 | 1899 | 1603 | 1366 | 1920 | 2013 |
| AV | 2841 | 3912 | 4083 | 4314 | 3681 | 3290 | 3673 | 2552 | 2559 | 2217 | 1869 | 1537 | 1866 | 1838 |
| AW | 3217 | 4205 | 4448 | 4581 | 3995 | 3685 | 4116 | 2701 | 2769 | 2557 | 2242 | 1961 | 2397 | 2402 |
| AX | 2830 | 3821 | 4060 | 4200 | 3608 | 3300 | 3738 | 2340 | 2394 | 2170 | 1857 | 1585 | 2064 | 2106 |
| AY | 2726 | 3613 | 3920 | 3965 | 3423 | 3206 | 3695 | 2035 | 2138 | 2049 | 1791 | 1603 | 2208 | 2323 |
| AZ | 3058 | 3563 | 4044 | 3803 | 3459 | 3513 | 4091 | 1896 | 2143 | 2453 | 2373 | 2386 | 3112 | 3331 |
| BA | 2724 | 3672 | 3941 | 4041 | 3469 | 3200 | 3663 | 2149 | 2222 | 2054 | 1763 | 1529 | 2077 | 2159 |
| BB | 2523 | 3500 | 3748 | 3879 | 3289 | 2996 | 3448 | 2025 | 2073 | 1857 | 1555 | 1307 | 1851 | 1940 |
| BC | 2728 | 3463 | 3849 | 3773 | 3306 | 3206 | 3744 | 1801 | 1971 | 2065 | 1890 | 1808 | 2496 | 2673 |
| BD | 2442 | 3418 | 3666 | 3796 | 3207 | 2916 | 3372 | 1947 | 1992 | 1776 | 1476 | 1235 | 1795 | 1897 |
| BE | 2781 | 3735 | 4000 | 4106 | 3531 | 3256 | 3713 | 2216 | 2288 | 2111 | 1817 | 1574 | 2106 | 2178 |
| BF | 2732 | 3640 | 3935 | 3998 | 3446 | 3211 | 3692 | 2080 | 2173 | 2057 | 1787 | 1583 | 2169 | 2273 |
| BG | 2597 | 3746 | 3825 | 4172 | 3494 | 3007 | 3313 | 2600 | 2538 | 2052 | 1683 | 1306 | 1408 | 1302 |
| BH | 2842 | 3938 | 4084 | 4348 | 3700 | 3281 | 3641 | 2629 | 2619 | 2236 | 1880 | 1531 | 1795 | 1738 |
| BI | 2843 | 3934 | 4085 | 4343 | 3698 | 3284 | 3648 | 2616 | 2609 | 2233 | 1878 | 1532 | 1809 | 1757 |
| BJ | 2717 | 3661 | 3933 | 4029 | 3459 | 3193 | 3658 | 2135 | 2210 | 2046 | 1757 | 1526 | 2079 | 2165 |
| BK | 2498 | 3495 | 3729 | 3878 | 3280 | 2969 | 3411 | 2045 | 2082 | 1838 | 1526 | 1263 | 1785 | 1866 |
| BL | 2471 | 3466 | 3700 | 3849 | 3251 | 2941 | 3386 | 2017 | 2053 | 1810 | 1498 | 1238 | 1768 | 1853 |
| BM | 2652 | 3768 | 3891 | 4184 | 3525 | 3083 | 3429 | 2521 | 2488 | 2064 | 1702 | 1341 | 1570 | 1512 |
| BN | 2750 | 3697 | 3967 | 4065 | 3495 | 3226 | 3689 | 2172 | 2247 | 2080 | 1789 | 1554 | 2100 | 2180 |
| BO | 2736 | 3713 | 3962 | 4090 | 3504 | 3208 | 3656 | 2222 | 2280 | 2071 | 1766 | 1508 | 2019 | 2082 |
| BP | 2727 | 3587 | 3909 | 3931 | 3403 | 3208 | 3708 | 1988 | 2104 | 2050 | 1807 | 1639 | 2264 | 2392 |
| BQ | 2568 | 3553 | 3795 | 3933 | 3341 | 3040 | 3487 | 2084 | 2130 | 1905 | 1597 | 1340 | 1866 | 1945 |
| BR | 1448 | 912 | 1546 | 1014 | 978 | 1551 | 2077 | 1076 | 1040 | 1596 | 1943 | 2318 | 2745 | 3114 |
| BS | 2655 | 3614 | 3875 | 3986 | 3408 | 3130 | 3589 | 2107 | 2172 | 1986 | 1692 | 1452 | 1998 | 2082 |
| BT | 2876 | 3866 | 4106 | 4246 | 3654 | 3345 | 3782 | 2383 | 2439 | 2215 | 1902 | 1628 | 2101 | 2138 |
| BU | 2692 | 3603 | 3896 | 3962 | 3408 | 3171 | 3651 | 2047 | 2138 | 2017 | 1747 | 1543 | 2131 | 2238 |
| BV | 3181 | 4175 | 4413 | 4553 | 3963 | 3648 | 4077 | 2679 | 2743 | 2523 | 2206 | 1921 | 2353 | 2357 |
| BW | 2670 | 3646 | 3896 | 4024 | 3437 | 3142 | 3592 | 2159 | 2215 | 2005 | 1701 | 1446 | 1967 | 2038 |
| BX | 2708 | 3829 | 3945 | 4247 | 3585 | 3135 | 3472 | 2593 | 2559 | 2126 | 1762 | 1398 | 1598 | 1523 |
| BY | 2451 | 3404 | 3668 | 3777 | 3199 | 2928 | 3394 | 1907 | 1965 | 1780 | 1493 | 1271 | 1855 | 1969 |
| BZ | 2520 | 3543 | 3756 | 3934 | 3322 | 2985 | 3410 | 2130 | 2153 | 1869 | 1543 | 1255 | 1732 | 1790 |
| CA | 2690 | 3631 | 3905 | 3999 | 3430 | 3167 | 3633 | 2104 | 2179 | 2018 | 1732 | 1504 | 2063 | 2153 |
| CB | 2632 | 3738 | 3873 | 4151 | 3497 | 3069 | 3426 | 2468 | 2442 | 2034 | 1675 | 1321 | 1586 | 1544 |
| CC | 2523 | 3457 | 3734 | 3824 | 3256 | 3001 | 3475 | 1933 | 2005 | 1850 | 1571 | 1361 | 1953 | 2068 |
| CD | 2421 | 3390 | 3643 | 3768 | 3181 | 2896 | 3355 | 1914 | 1962 | 1753 | 1457 | 1223 | 1793 | 1902 |
| CE | 2836 | 3922 | 4078 | 4329 | 3687 | 3279 | 3648 | 2594 | 2590 | 2222 | 1869 | 1526 | 1817 | 1772 |
| CF | 2752 | 3674 | 3960 | 4036 | 3477 | 3230 | 3703 | 2125 | 2212 | 2078 | 1800 | 1583 | 2153 | 2247 |
| CG | 2798 | 3756 | 4019 | 4126 | 3551 | 3273 | 3729 | 2238 | 2310 | 2129 | 1833 | 1588 | 2114 | 2182 |
| CH | 2827 | 3918 | 4070 | 4325 | 3681 | 3269 | 3635 | 2597 | 2590 | 2217 | 1862 | 1517 | 1800 | 1752 |

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...continued from previous page

WTG

| NSA | WTG 08 | WTG 09 | WTG 10 | WTG 11 | WTG 12 | WTG 13 | WTG 14 | WTG 01 | WTG 02 | WTG 03 | WTG 04 | WTG 05 | WTG 06 | WTG 07 |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| CI | 2556 | 3721 | 3771 | 4152 | 3463 | 2950 | 3230 | 2643 | 2563 | 2041 | 1673 | 1291 | 1306 | 1167 |
| CJ | 2658 | 3814 | 3880 | 4242 | 3560 | 3061 | 3353 | 2690 | 2623 | 2125 | 1756 | 1377 | 1435 | 1304 |
| CK | 2862 | 3851 | 4092 | 4230 | 3639 | 3331 | 3769 | 2367 | 2423 | 2201 | 1888 | 1616 | 2092 | 2132 |
| CL | 3050 | 3533 | 4021 | 3766 | 3433 | 3501 | 4082 | 1872 | 2123 | 2452 | 2383 | 2407 | 3135 | 3360 |
| CM | 2735 | 3843 | 3976 | 4256 | 3602 | 3170 | 3521 | 2569 | 2546 | 2139 | 1779 | 1424 | 1668 | 1609 |
| CN | 2825 | 3928 | 4066 | 4339 | 3688 | 3262 | 3616 | 2633 | 2618 | 2225 | 1866 | 1514 | 1763 | 1700 |
| CO | 2896 | 3595 | 3999 | 3892 | 3447 | 3372 | 3917 | 1921 | 2108 | 2239 | 2074 | 1999 | 2688 | 2864 |
| CP | 2739 | 3663 | 3948 | 4025 | 3465 | 3217 | 3690 | 2116 | 2202 | 2065 | 1787 | 1569 | 2140 | 2234 |
| CQ | 2857 | 3327 | 3816 | 3561 | 3228 | 3304 | 3888 | 1667 | 1921 | 2269 | 2217 | 2263 | 2996 | 3236 |
| CR | 2831 | 3842 | 4066 | 4227 | 3625 | 3297 | 3722 | 2387 | 2430 | 2177 | 1854 | 1567 | 2015 | 2042 |
| CS | 2950 | 3945 | 4181 | 4325 | 3732 | 3418 | 3850 | 2462 | 2518 | 2291 | 1975 | 1696 | 2153 | 2179 |
| CT | 3110 | 4094 | 4340 | 4470 | 3884 | 3580 | 4016 | 2590 | 2657 | 2449 | 2137 | 1861 | 2315 | 2334 |
| CU | 2783 | 3893 | 4022 | 4307 | 3651 | 3216 | 3563 | 2621 | 2598 | 2189 | 1828 | 1471 | 1701 | 1633 |
| CV | 2550 | 3574 | 3786 | 3964 | 3353 | 3014 | 3439 | 2159 | 2182 | 1899 | 1573 | 1284 | 1754 | 1808 |
| CW | 2647 | 3772 | 3883 | 4190 | 3526 | 3073 | 3408 | 2549 | 2509 | 2069 | 1704 | 1338 | 1535 | 1464 |
| CX | 2454 | 3432 | 3679 | 3811 | 3221 | 2928 | 3382 | 1963 | 2008 | 1788 | 1487 | 1243 | 1798 | 1897 |
| CY | 2483 | 3456 | 3706 | 3834 | 3246 | 2956 | 3412 | 1980 | 2028 | 1816 | 1516 | 1274 | 1829 | 1926 |
| CZ | 2762 | 3493 | 3881 | 3802 | 3337 | 3240 | 3778 | 1830 | 2001 | 2099 | 1924 | 1841 | 2528 | 2703 |
| DA | 2711 | 3137 | 3638 | 3362 | 3045 | 3149 | 3738 | 1491 | 1754 | 2146 | 2124 | 2203 | 2939 | 3197 |
| DB | 2837 | 3825 | 4066 | 4204 | 3613 | 3307 | 3746 | 2341 | 2397 | 2175 | 1864 | 1593 | 2074 | 2117 |
| DC | 2831 | 3692 | 4015 | 4036 | 3509 | 3313 | 3810 | 2090 | 2209 | 2155 | 1908 | 1732 | 2345 | 2462 |
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| DE | 2875 | 3889 | 4110 | 4275 | 3671 | 3340 | 3762 | 2435 | 2478 | 2222 | 1898 | 1607 | 2044 | 2063 |
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| DI | 3032 | 3515 | 4003 | 3748 | 3415 | 3483 | 4064 | 1854 | 2105 | 2435 | 2367 | 2392 | 3121 | 3347 |
| DJ | 2884 | 3583 | 3987 | 3881 | 3436 | 3360 | 3905 | 1910 | 2096 | 2227 | 2063 | 1988 | 2678 | 2854 |
| DK | 2735 | 3649 | 3940 | 4009 | 3454 | 3214 | 3691 | 2094 | 2184 | 2060 | 1787 | 1578 | 2158 | 2258 |
| DL | 2649 | 3785 | 3882 | 4207 | 3537 | 3068 | 3389 | 2595 | 2546 | 2086 | 1719 | 1347 | 1499 | 1408 |
| DM | 2765 | 3692 | 3975 | 4055 | 3494 | 3243 | 3714 | 2146 | 2232 | 2091 | 1811 | 1591 | 2155 | 2245 |
| DN | 2823 | 3893 | 4065 | 4295 | 3661 | 3273 | 3656 | 2532 | 2539 | 2198 | 1850 | 1519 | 1854 | 1829 |
| DO | 3150 | 4154 | 4384 | 4535 | 3940 | 3616 | 4039 | 2672 | 2730 | 2495 | 2174 | 1883 | 2304 | 2304 |
| DP | 2657 | 3619 | 3878 | 3992 | 3412 | 3132 | 3589 | 2115 | 2178 | 1989 | 1692 | 1451 | 1992 | 2074 |
| DQ | 2856 | 3731 | 4046 | 4078 | 3545 | 3337 | 3828 | 2137 | 2251 | 2179 | 1924 | 1737 | 2337 | 2445 |
| DR | 3090 | 4089 | 4323 | 4470 | 3876 | 3557 | 3984 | 2605 | 2663 | 2433 | 2114 | 1828 | 2262 | 2270 |
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| DT | 2796 | 3776 | 4024 | 4153 | 3566 | 3268 | 3713 | 2283 | 2343 | 2133 | 1825 | 1563 | 2062 | 2116 |
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| DX | 2541 | 3483 | 3755 | 3852 | 3280 | 3018 | 3487 | 1966 | 2034 | 1868 | 1585 | 1366 | 1947 | 2055 |
| DY | 2692 | 3629 | 3905 | 3996 | 3429 | 3169 | 3637 | 2098 | 2175 | 2020 | 1735 | 1511 | 2074 | 2167 |
| DZ | 2662 | 3552 | 3857 | 3905 | 3361 | 3142 | 3631 | 1979 | 2079 | 1985 | 1727 | 1542 | 2152 | 2273 |
| EA | 2666 | 3607 | 3880 | 3975 | 3405 | 3143 | 3610 | 2081 | 2155 | 1994 | 1708 | 1482 | 2045 | 2139 |
| EB | 2758 | 3481 | 3873 | 3789 | 3328 | 3236 | 3776 | 1816 | 1991 | 2097 | 1926 | 1848 | 2538 | 2717 |
| EC | 2628 | 3600 | 3852 | 3977 | 3391 | 3101 | 3554 | 2111 | 2167 | 1961 | 1660 | 1411 | 1944 | 2023 |
| ED | 2695 | 3612 | 3901 | 3973 | 3416 | 3173 | 3651 | 2062 | 2149 | 2020 | 1746 | 1537 | 2120 | 2223 |
| EE | 2897 | 3889 | 4128 | 4268 | 3677 | 3366 | 3802 | 2405 | 2462 | 2237 | 1923 | 1648 | 2116 | 2150 |
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| EG | 3244 | 4243 | 4477 | 4622 | 4030 | 3710 | 4134 | 2751 | 2813 | 2587 | 2267 | 1978 | 2396 | 2391 |
| EH | 2733 | 3719 | 3962 | 4098 | 3507 | 3204 | 3647 | 2238 | 2292 | 2071 | 1761 | 1497 | 1997 | 2054 |
| EI | 2696 | 3653 | 3916 | 4025 | 3448 | 3171 | 3630 | 2142 | 2209 | 2027 | 1733 | 1492 | 2034 | 2114 |
| EJ | 2704 | 3635 | 3915 | 3999 | 3436 | 3182 | 3653 | 2096 | 2177 | 2031 | 1750 | 1530 | 2099 | 2194 |
| EK | 2980 | 3968 | 4210 | 4346 | 3757 | 3450 | 3886 | 2475 | 2537 | 2320 | 2007 | 1732 | 2195 | 2223 |
| EL | 2676 | 3806 | 3911 | 4226 | 3559 | 3098 | 3426 | 2595 | 2552 | 2104 | 1738 | 1370 | 1543 | 1459 |
| EM | 3108 | 4111 | 4342 | 4492 | 3897 | 3574 | 3999 | 2629 | 2687 | 2452 | 2132 | 1843 | 2270 | 2274 |
| EN | 2550 | 3486 | 3762 | 3853 | 3285 | 3028 | 3500 | 1962 | 2034 | 1877 | 1597 | 1383 | 1968 | 2078 |
| EO | 2882 | 3917 | 4121 | 4308 | 3694 | 3342 | 3751 | 2493 | 2524 | 2238 | 1905 | 1598 | 1998 | 1999 |
| EP | 2558 | 3721 | 3776 | 4152 | 3465 | 2955 | 3239 | 2635 | 2557 | 2039 | 1671 | 1290 | 1316 | 1183 |
| EQ | 2558 | 3711 | 3783 | 4138 | 3458 | 2964 | 3265 | 2586 | 2518 | 2020 | 1652 | 1273 | 1356 | 1246 |
| ER | 2632 | 3586 | 3851 | 3958 | 3381 | 3108 | 3569 | 2076 | 2142 | 1962 | 1670 | 1436 | 1989 | 2079 |
| ES | 2891 | 3876 | 4120 | 4254 | 3665 | 3362 | 3801 | 2384 | 2444 | 2229 | 1919 | 1649 | 2128 | 2168 |
| ET | 2832 | 3913 | 4075 | 4319 | 3679 | 3278 | 3652 | 2574 | 2574 | 2215 | 1863 | 1524 | 1830 | 1792 |
| EU | 2651 | 3756 | 3891 | 4169 | 3516 | 3087 | 3443 | 2485 | 2460 | 2053 | 1693 | 1339 | 1601 | 1557 |
| EV | 3111 | 3189 | 3782 | 3296 | 3178 | 3479 | 4079 | 1811 | 2105 | 2684 | 2771 | 2940 | 3665 | 3962 |

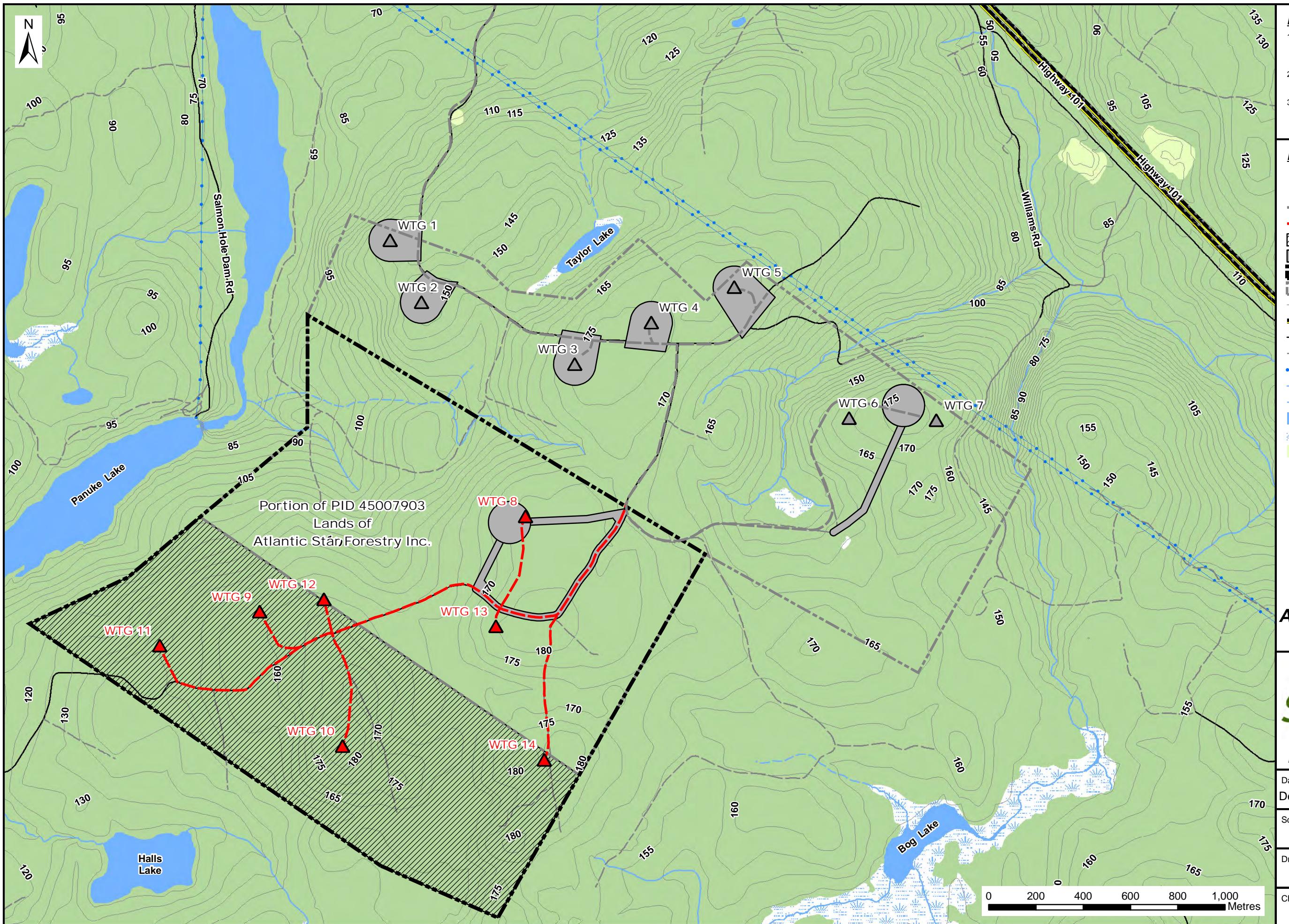
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DECIBEL - Main Result

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| WTG | | | | | | | | | | | | | | | | | | |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|
| NSA | WTG 08 | WTG 09 | WTG 10 | WTG 11 | WTG 12 | WTG 13 | WTG 14 | WTG 01 | WTG 02 | WTG 03 | WTG 04 | WTG 05 | WTG 06 | WTG 07 | | | | |
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| EX | 2689 | 3623 | 3901 | 3989 | 3423 | 3166 | 3636 | 2089 | 2168 | 2016 | 1733 | 1511 | 2078 | 2173 | | | | |
| EY | 2648 | 3588 | 3862 | 3956 | 3387 | 3125 | 3593 | 2062 | 2136 | 1976 | 1692 | 1468 | 2035 | 2131 | | | | |
| EZ | 2679 | 3628 | 3896 | 3997 | 3424 | 3155 | 3618 | 2109 | 2180 | 2008 | 1718 | 1485 | 2037 | 2124 | | | | |
| FA | 2419 | 3391 | 3642 | 3770 | 3181 | 2893 | 3351 | 1919 | 1965 | 1752 | 1454 | 1217 | 1785 | 1892 | | | | |
| FB | 2683 | 3668 | 3911 | 4048 | 3456 | 3154 | 3598 | 2191 | 2242 | 2020 | 1711 | 1449 | 1956 | 2020 | | | | |
| FC | 2780 | 3771 | 4010 | 4151 | 3559 | 3250 | 3689 | 2294 | 2346 | 2119 | 1807 | 1536 | 2021 | 2069 | | | | |
| FD | 2928 | 3914 | 4157 | 4292 | 3703 | 3398 | 3836 | 2422 | 2482 | 2266 | 1955 | 1683 | 2155 | 2190 | | | | |
| FE | 2730 | 3848 | 3968 | 4265 | 3605 | 3158 | 3498 | 2603 | 2571 | 2145 | 1782 | 1420 | 1627 | 1553 | | | | |
| FF | 2919 | 3912 | 4150 | 4292 | 3700 | 3388 | 3823 | 2428 | 2485 | 2260 | 1945 | 1668 | 2133 | 2164 | | | | |
| FG | 2742 | 3626 | 3935 | 3977 | 3437 | 3222 | 3712 | 2045 | 2150 | 2065 | 1808 | 1621 | 2226 | 2341 | | | | |
| FH | 2778 | 3757 | 4005 | 4134 | 3547 | 3250 | 3695 | 2265 | 2324 | 2114 | 1807 | 1546 | 2049 | 2105 | | | | |
| FI | 2698 | 3685 | 3927 | 4065 | 3473 | 3169 | 3612 | 2209 | 2260 | 2036 | 1726 | 1462 | 1964 | 2025 | | | | |
| FJ | 2061 | 3037 | 3283 | 3420 | 2824 | 2537 | 3004 | 1608 | 1629 | 1393 | 1101 | 896 | 1532 | 1695 | | | | |
| FK | 2053 | 3026 | 3274 | 3408 | 2814 | 2529 | 2998 | 1594 | 1616 | 1384 | 1095 | 894 | 1535 | 1701 | | | | |
| FL | 2500 | 3438 | 3712 | 3806 | 3236 | 2978 | 3451 | 1920 | 1988 | 1827 | 1547 | 1335 | 1927 | 2042 | | | | |
| FM | 2487 | 3429 | 3701 | 3798 | 3226 | 2965 | 3436 | 1915 | 1982 | 1815 | 1533 | 1319 | 1908 | 2024 | | | | |
| FN | 2512 | 3489 | 3737 | 3868 | 3279 | 2986 | 3439 | 2014 | 2063 | 1847 | 1544 | 1298 | 1844 | 1935 | | | | |
| FO | 2798 | 3725 | 4009 | 4088 | 3527 | 3276 | 3747 | 2178 | 2264 | 2125 | 1844 | 1622 | 2181 | 2268 | | | | |
| FP | 3166 | 4159 | 4398 | 4537 | 3947 | 3634 | 4063 | 2663 | 2727 | 2507 | 2191 | 1907 | 2342 | 2348 | | | | |
| FQ | 2893 | 3762 | 4081 | 4108 | 3577 | 3373 | 3866 | 2163 | 2281 | 2216 | 1963 | 1777 | 2377 | 2484 | | | | |
| FR | 2843 | 3708 | 4029 | 4053 | 3524 | 3324 | 3819 | 2108 | 2226 | 2166 | 1917 | 1737 | 2345 | 2459 | | | | |
| FS | 2762 | 3873 | 4002 | 4287 | 3631 | 3195 | 3542 | 2604 | 2580 | 2169 | 1808 | 1451 | 1681 | 1615 | | | | |
| FT | 2648 | 3781 | 3882 | 4203 | 3533 | 3068 | 3393 | 2583 | 2536 | 2081 | 1714 | 1344 | 1507 | 1421 | | | | |
| FU | 2635 | 3764 | 3871 | 4184 | 3517 | 3058 | 3389 | 2554 | 2510 | 2062 | 1697 | 1328 | 1511 | 1434 | | | | |
| FV | 2674 | 3828 | 3897 | 4255 | 3574 | 3077 | 3372 | 2695 | 2631 | 2137 | 1768 | 1390 | 1455 | 1326 | | | | |
| FW | 2740 | 3110 | 3628 | 3318 | 3031 | 3169 | 3762 | 1491 | 1765 | 2198 | 2198 | 2297 | 3034 | 3300 | | | | |
| FX | 2941 | 3635 | 4042 | 3931 | 3489 | 3417 | 3962 | 1960 | 2149 | 2284 | 2119 | 2043 | 2731 | 2904 | | | | |
| FY | 2911 | 3604 | 4011 | 3900 | 3458 | 3387 | 3933 | 1929 | 2118 | 2255 | 2093 | 2020 | 2710 | 2886 | | | | |
| FZ | 2832 | 3533 | 3935 | 3832 | 3385 | 3309 | 3854 | 1860 | 2045 | 2175 | 2013 | 1942 | 2635 | 2814 | | | | |
| GA | 2642 | 3371 | 3759 | 3682 | 3215 | 3120 | 3660 | 1710 | 1880 | 1982 | 1814 | 1743 | 2440 | 2626 | | | | |
| GB | 2671 | 3378 | 3776 | 3683 | 3227 | 3147 | 3693 | 1710 | 1889 | 2015 | 1857 | 1797 | 2499 | 2690 | | | | |
| GC | 2581 | 3279 | 3679 | 3582 | 3129 | 3056 | 3605 | 1610 | 1790 | 1928 | 1781 | 1736 | 2446 | 2648 | | | | |
| GD | 2502 | 3186 | 3591 | 3488 | 3038 | 2975 | 3528 | 1515 | 1698 | 1854 | 1719 | 1692 | 2410 | 2622 | | | | |
| GE | 2637 | 3599 | 3858 | 3973 | 3393 | 3112 | 3569 | 2097 | 2159 | 1969 | 1672 | 1431 | 1975 | 2060 | | | | |
| GF | 2953 | 3932 | 4180 | 4308 | 3723 | 3423 | 3865 | 2431 | 2496 | 2289 | 1981 | 1713 | 2191 | 2228 | | | | |
| GG | 2926 | 3899 | 4152 | 4273 | 3691 | 3397 | 3843 | 2392 | 2459 | 2261 | 1955 | 1692 | 2182 | 2226 | | | | |
| GH | 3469 | 2308 | 2685 | 1877 | 2583 | 3301 | 3537 | 3328 | 3320 | 3824 | 4187 | 4568 | 4890 | 5251 | | | | |
| GI | 3476 | 2284 | 2564 | 1839 | 2561 | 3252 | 3418 | 3495 | 3452 | 3896 | 4264 | 4645 | 4907 | 5259 | | | | |
| GJ | 2836 | 1659 | 2022 | 1221 | 1935 | 2646 | 2873 | 2834 | 2786 | 3234 | 3601 | 3983 | 4265 | 4621 | | | | |
| GK | 3294 | 2910 | 2308 | 2919 | 2913 | 2816 | 2297 | 4429 | 4166 | 3963 | 4201 | 4441 | 4111 | 4281 | | | | |
| GL | 2504 | 3562 | 3745 | 3963 | 3333 | 2959 | 3361 | 2208 | 2208 | 1870 | 1528 | 1211 | 1622 | 1653 | | | | |

APPENDIX B
ARCHEOLOGICAL MAP



Ellershouse Wind Farm Expansion - Archaeological Study Areas



Engineering * Surveying * Environmental
Bedford * Antigonish * Moncton * Deer Lake

20
YEARS
Taking Charge

CONSULTING

2016

YEAR

Taking Charge

20

YEARS

2016

Taking Charge

20