

Martec Environmental Consultants Ltd.

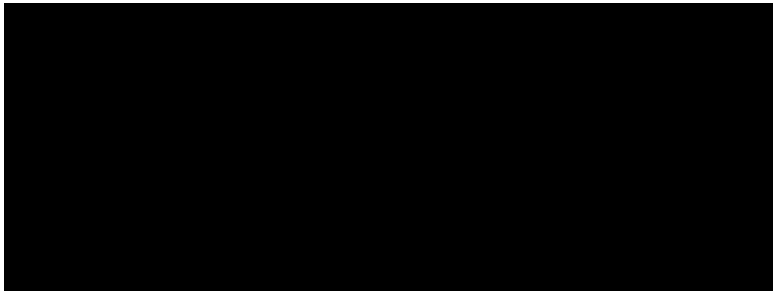
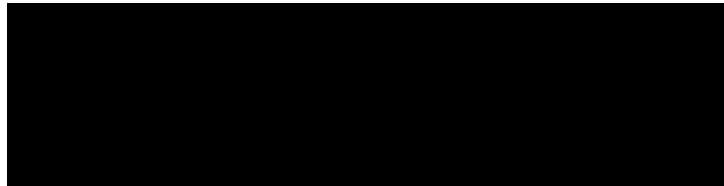
Waterbrow Wood, Gressingham, LANCASTER LA2 8LX



NOISE ASSESSMENT

**NJS Rehabilitation
Whitewell Road, Lees
Clitheroe BB7 3DG**

Report Date: 24th April 2024
Ref: 20240424 9592 Cow Ark BS4142.docx
Site Visit by: M A Kenyon
Site Visit: 18th & 23rd April 2024



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1.0 INTRODUCTION

On the instructions of Zoe Swingler, Martec Environmental Consultants Ltd carried out a noise assessment of a portable generator located at NJS Rehabilitation, Whitewell Road, Lees, Clitheroe BB7 3DG.

This report considers appropriate assessment criteria, measurements of the existing noise climate, and predictions of the diesel generator noise and draws conclusions as to the impact of the generator.

Acoustic terminology is explained at Appendix 1 of this report, the author's qualifications and experience are described in Appendix 2, detailed measurement results appear at Appendix 3 and details of the generator are at Appendix 4.

2.0 BACKGROUND TO ASSESSMENT

The diesel generator is a Pramac P6000S unit and it is currently on site and used when mains electricity is required at an 'off grid' equine rehabilitation facility. The diesel generator is operated as required when the facility is staffed, i.e. it is operated sporadically between the hours of approximately 8am to 6pm. [See Appendix 4].

There was a recent planning application [Ribble Valley Ref. 3/2023/1028] for the construction of a dwelling on site; the dwelling would also be off-grid but would be provided with solar panels and battery storage with the aim that power would be supplied to both the dwelling and to equine rehab facility; the mode of operation for diesel generator would be to top up the batteries as required; with all solar panels producing significantly more power during the summer; this means that the generator would tend to be operated more in the winter than the summer.

Figure 1 below is existing site plan from the residential application, to which the location of the background monitoring location has been added.

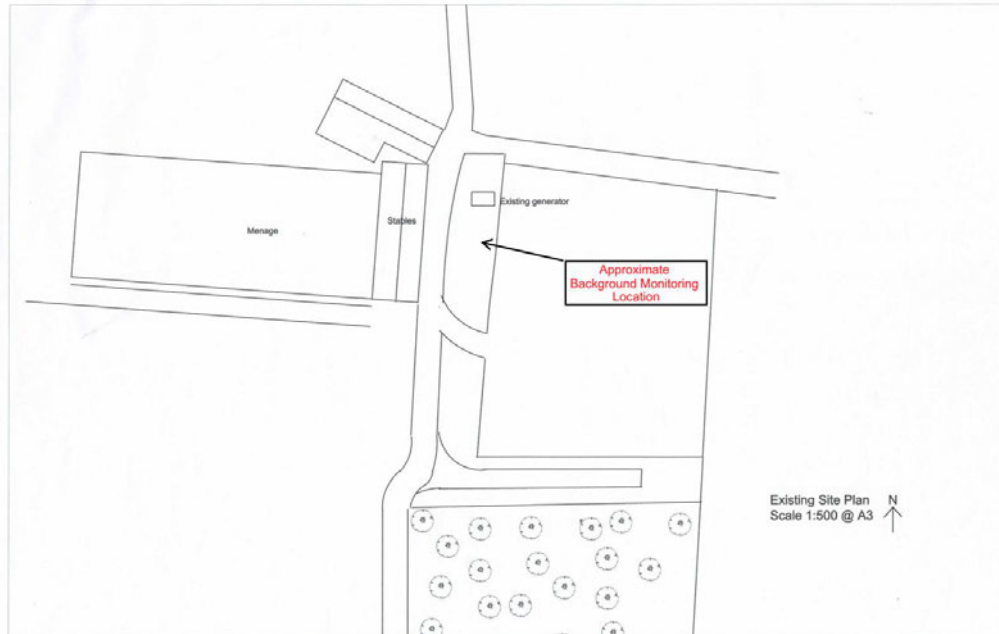


Figure 1: Site Plan

Planning consent for the new dwelling was refused; the issue of noise from the generator was discussed in the planning officer's report and it is stated that *"...no concerns are raised with respect to the use of the generator/battery bank. Additional concerns have been raised in relation to the use of an existing generator on site however this is not directly related to the application in question. The proposal therefore satisfies policy DMG1 (Amenity)."*

Impact of nearby residential amenity was not one of the reasons for refusal and given the above comments it can be seen that the officers consider that noise from the generator would not bar the grant of planning consent for the proposed dwelling.

Reference was made to a letter of objection written on behalf of a neighbour which stated *"The proposal notes that it will be 'off-grid' and powered by solar arrays and a back-up generator. However, the current generator at the site, in use for the stables, is currently in operation daily for several hours and is audible from our clients property [section redacted]. The dwelling and we assume additional generator will be located closer [section redacted] and as it not possible to run solar panels 100% of the time, it is anticipated this will increase issues with noise and disturbance from the site."*

In the above resident's comments there are two misapprehensions, firstly

that there would be an additional generator, and secondly no mention of the battery bank designed to significantly reduce the need to run the generator; however, it does indicate that the resident is concerned not only about future noise from the generator but also has some issues with the existing impact.

3.0 NOISE CRITERIA

3.1 BS4142:2014+A1:2019 - Method for Rating and Assessing Industrial and Commercial Sound

BS4142:2014 states, *“Response to sound can be subjective and is affected by many factors, both acoustic and non-acoustic. The significance of its impact, for example, can depend on such factors as the margin by which a sound exceeds the background sound level, its absolute level, time of day and change in the acoustic environment, as well as local attitudes to the source of the sound and the character of the neighbourhood...This British Standard describes methods for rating and assessing sound of an industrial and/or commercial nature”*.

The Standard requires that the ambient noise ***(totally encompassing sound in a given situation at a given time, usually composed of sound from many sources near and far)*** including the “specific” sound from the



source in question is measured in terms of the equivalent continuous sound level LAeq [see Appendix 1 for acoustic terms], which is then corrected for the residual sound (total LAeq excluding the “specific” sound).

A correction for character is made if **“a tone, impulse or other characteristic occurs”**. For tonality, a correction of between +2dB and 6dB is considered acceptable and for impulsivity between 3 and 9dB. See table below.

Character	Just Perceptible	Clearly Perceptible	Highly Perceptible
Tonality	+2dB	+4dB	+6dB
Impulsivity	+3dB	+6dB	+9dB

Where the specific sound features characteristics that are neither tonal nor impulsive, though otherwise are readily distinctive against the residual acoustic environment, a penalty of 3 dB can be applied.

Where tonal and impulsive characteristics are present in the specific sound within the same reference period then these two corrections can both be taken into account. If one feature is dominant, then it might be appropriate to apply a single correction. Where both features are likely to affect perception and response, the corrections ought normally to be added in a linear fashion.



Intermittency

When the specific sound has identifiable on/off conditions, the specific sound level ought to be representative of the time period of length equal to the reference time interval which contains the greatest total amount of on time. This can necessitate measuring the specific sound over a number of shorter sampling periods that are in combination less than the reference time interval in total, and then calculating the specific sound level for the reference time interval allowing for time when the specific sound is not present. If the intermittency is readily distinctive against the residual acoustic environment, a penalty of 3 dB can be applied.”

The final figure, including any character correction is known as the Rating level.

This Rating Level is then compared with the measured background [LA90] level. The greater this difference the greater the likelihood of “adverse impact” (See Notes 1 & 2 from BS4142:2014 below).

"NOTE 1

- a) Typically, the greater this difference, the greater the magnitude of the impact.*
- b) A difference of around +10 dB or more is likely to be an indication of a significant adverse impact, depending on the context.*
- c) A difference of around +5 dB is likely to be an indication of an adverse impact, depending on the context.*
- d) The lower the rating level is relative to the measured background sound*

level, the less likely it is that the specific sound source will have an adverse impact or a significant adverse impact. Where the rating level does not exceed the background sound level, this is an indication of the specific sound source having a low impact, depending on the context.

NOTE 2

Adverse impacts include, but are not limited to, annoyance and sleep disturbance. Not all adverse impacts will lead to complaints and not every complaint is proof of an adverse impact."

It would be usual to assess noise impact in external amenity spaces which are generally rear gardens.

3.2 Low Noise and Source Levels

In this instance it will be seen that both the background noise levels and source [generator] levels are low. Reference 5 was produced by a working group [WG] of the Association of Noise Consultants and makes the following observations on the BS4142 standard:

"The standard states that the absolute level of sound can be of significance, where the residual values are low and where they are high, and should be taken into account when determining the overall impact of a particular specific sound source.

The second paragraph [BS4142 Subclause 11(1)] notes that absolute



levels may be as, or more, important than relative outcomes where background and rating levels are low. It is important to note that both background and rating levels would need to be low for this particular caveat to apply.

BS 4142 does not indicate how the initial estimate of impact should be adjusted when background and rating levels are low, only that the absolute levels may be more important than the difference between the two values. It is likely that where the background and rating levels are low, the absolute levels might suggest a more acceptable outcome than would otherwise be suggested by the difference between the values. For example a situation might be considered acceptable where a rating level of 30dB is 10dB above a background sound level of 20dB, i.e. an initial estimate of a significant adverse impact is modified by the low rating and background sound levels.

There may be situations where the opposite is true, and it is for the assessor to justify any modifications to the initial estimate of impact.

BS 4142 does not define 'low' in the context of background sound levels nor rating levels. The note to the Scope of the 1997 version of BS 4142 defined very low background sound levels as being less than about 30 dB L_{A90} , and low rating levels as being less than about 35 dB $L_{Ar,Tr}$.

The WG suggest that similar values would not be unreasonable in the

context of BS 4142, but that the assessor should make a judgement and justify it where appropriate.”

It can be seen that the working group [WG] considered that when background levels and source [rating] levels are both low that the size of an excesses over the background levels is less significant than the fact that the source [rating] level is objectively low.

4.0 MEASUREMENT PROCEDURE

The instruments below calibrated correctly before and after the measurements and had been laboratory calibrated on a two-year schedule.

Model	Instrument	Serial No.	Lab Cal Certificate	Re-Calibration Due
A - Svan 957	Sound Level Meter	12308	1501102-1	13/11/2025
Svan SV12L	Preamp	13471	1501102-1	13/11/2025
GRAS 40AE Mic	Microphone	75146	1501102-1	13/11/2025
E Svan 957	Sound Level Meter	23202	1504880-3	20/03/2025
Svan SV12L	Preamp	33542	1504880-3	20/03/2025
MTG MK255	Microphone	15795	1504880-3	20/03/2025
B&K 4231	Calibrator	2084928	1504880-1	20/03/2025

Table 1: Instrumentation Used on Site

For the measurements of background noise, meter A above, was mounted in a RION WS02 "all weather" windmuff at the position shown in Figure 1 some 4m above local ground height [on top of a storage tank] to ensure free field conditions.



Meter E in Table 1 was fitted with a standard windmuff and handheld to obtain a source spectrum for use in the calculations.

5.0 MEASUREMENT RESULTS

5.1 Background Noise Levels

The site was visited on the early afternoon of Tuesday 2nd April 2024 when the equipment was installed to make background noise measurements, which was then removed later that day.

There is a weather station in Chipping that reports its results on Wunderground.com [IPREST24] and Figure 2 below covers the monitoring period [inside red box]; it can be seen that wind speeds tended to fall through the monitoring period starting from the west and then backing to easterly; there was little rain during the monitoring.

‘Wind in the trees’ and possibly distant road traffic were the main background noise sources on installation and collection; the detailed results are as shown in Appendix 3.



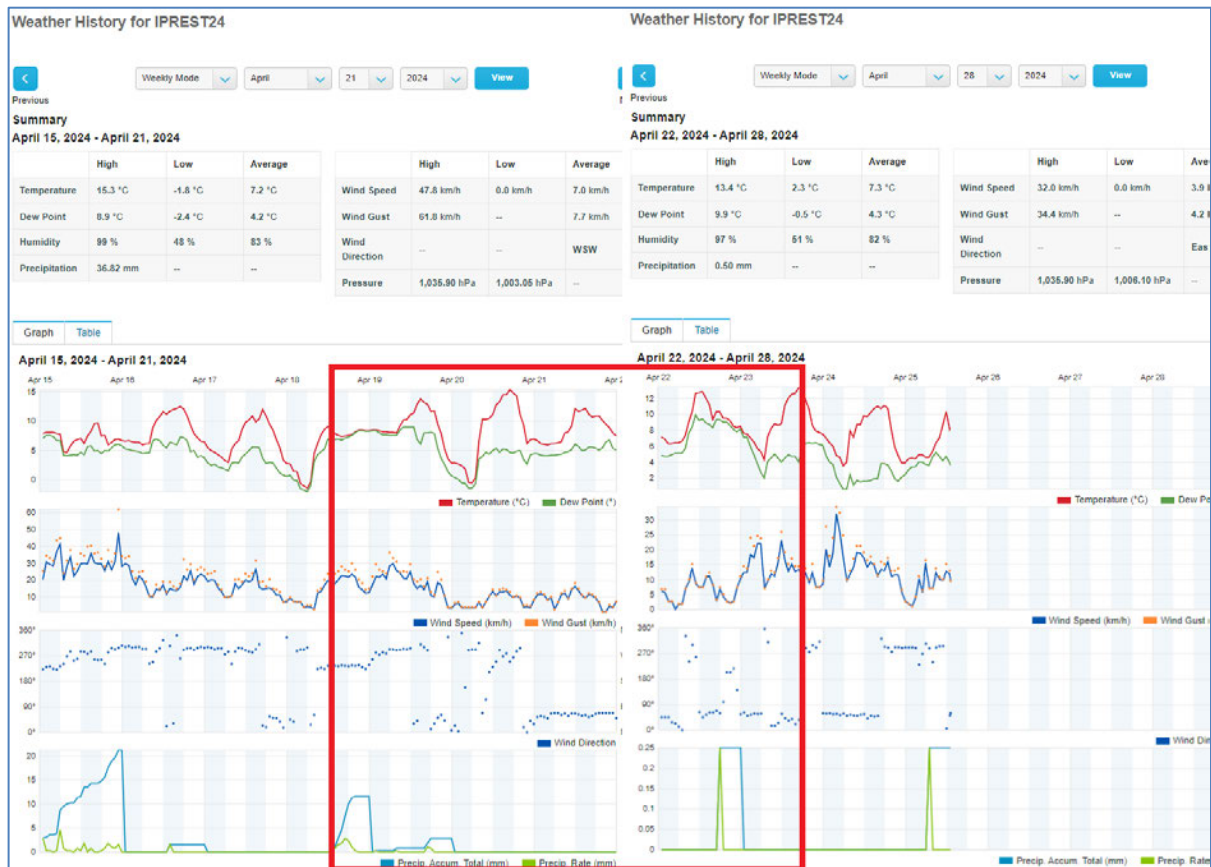


Figure 2: Weather Details During Monitoring

The arithmetic average of the daytime results was 32 LA90; given the mode also at 28 LA90 in Figure 3 below it seems reasonable to assume a figure of 28 LA90 [free-field] as being the representative daytime background noise level based on the measurements using the procedure in Section 8 of BS4142.

The averages for evening [18-23:00hrs] and nighttime [23-07:00hrs] were also 32 LA90 and the modes were 28 and 26 LA90 respectively; the similarity in the results for day, evening and night indicates that 'wind in

the trees' [and not 'human generated'] noise was the dominant source of background noise in the area.

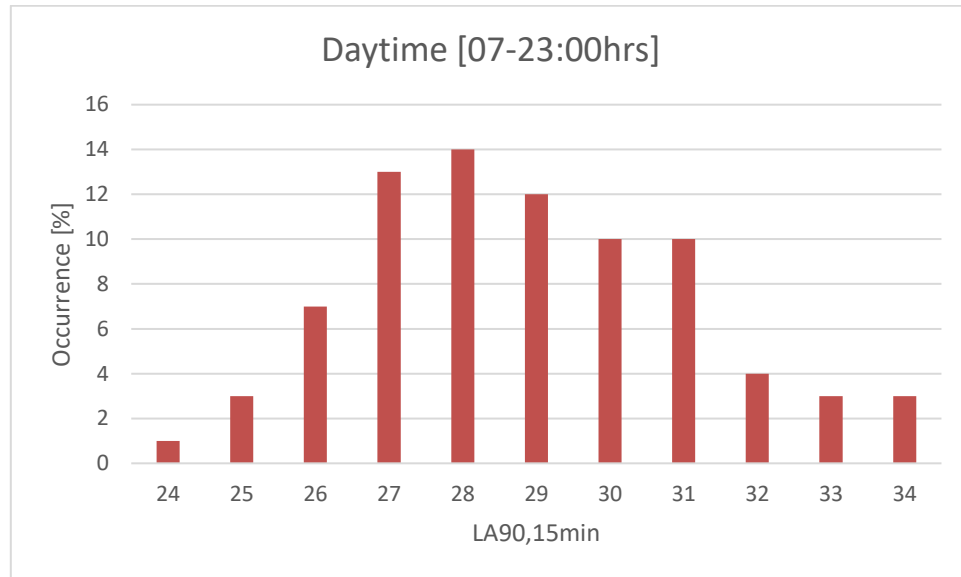


Figure 3: Background noise distribution [LA90,15m free field]

5.2 Source Noise

In Appendix 4 it can be seen that the Guaranteed sound power level [LWA] for the generator is 84 dB(A). No spectral details were provided in the manufacturer's data and accordingly a measurement was made of the existing generator as shown in Figure 4 below:

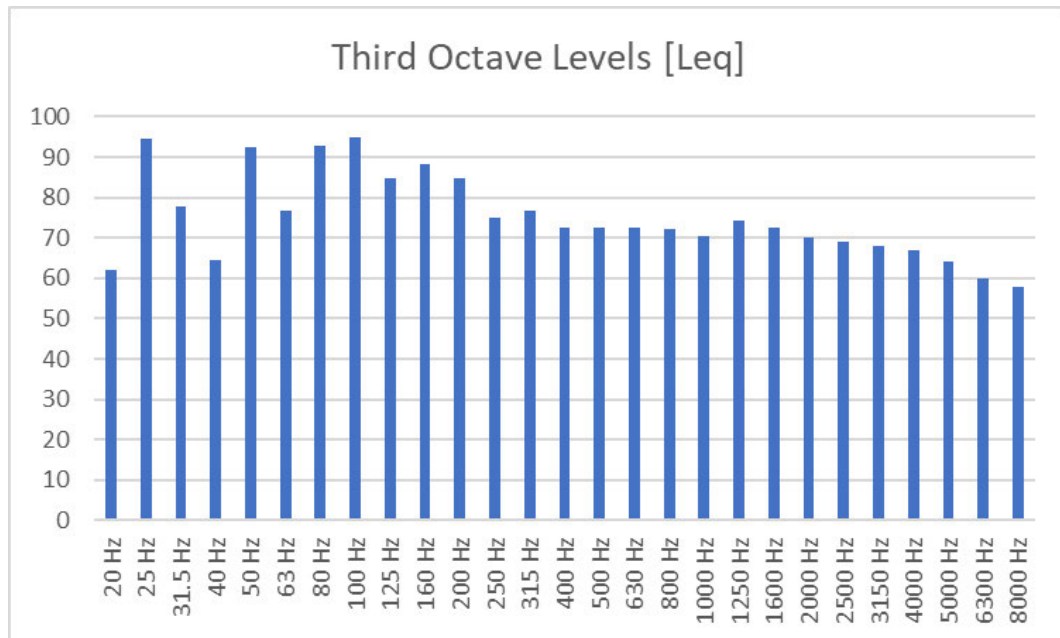


Figure 4: Diesel Generator Spectrum [measured close to]

6.0 PREDICTIONS

6.1 Methodology and Results

Currently the generator is located within a building which reduces noise; similarly in future the generator would also be operated within a building. Albeit it could be a different building in a slightly different location, which again would reduce noise reaching neighbours. However, solely for the purposes solely of this assessment, a worst case has been assumed with the generator operating in the open air and at its nearest likely location to the nearest neighbours, who are some 300m to the east of the site.

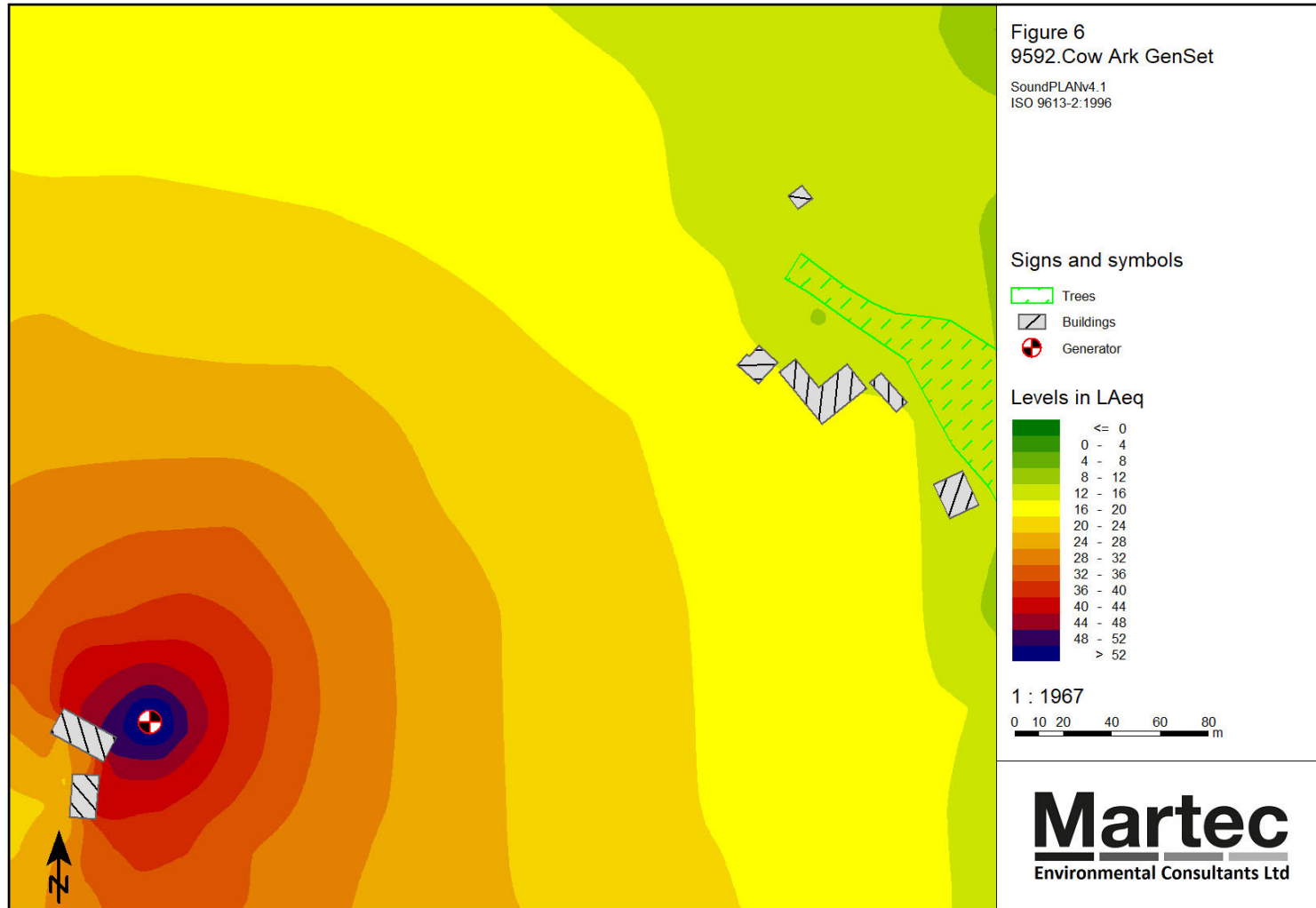
The final design of the buildings and construction materials have not been determined at this stage. Therefore, it has been necessary to predict the noise impact on the basis of the following assumptions:

1. The ground contours are derived from 1m LiDAR data.
2. The ground has been assumed to be acoustically soft.
3. Building have been assumed to be 6m high and to be acoustically reflective.
4. The prediction methodology of ISO 9613-2: 1996 has been used which assumes a following wind from source to receiver.

Using the above data predictions have been performed using SoundPLAN.

The predicted noise levels are shown in Figure 5, where the level at the nearest neighbour is predicted at 20 LAeq. Figure 6 shows the predicted noise contours.





6.2 Assessment of the Noise

6.2.1 Character Corrections/Penalties

Whilst diesel generator noise can be tonal, if loud enough; here the predicted level at the neighbours at 20 LAeq is well below the measured background noise level of 28 LA90; therefore, it is unlikely that the noise would be perceived as tonal; however, on a precautionary basis a penalty of 2dB [just perceptible tone] has been included.

Generator noise is not normally considered as impulsive.

Here the generator would have *“identifiable on/off conditions”* again given the fact the predicted levels are below the measured backgrounds it seems unlikely that this intermittency would be *“readily distinctive against the residual acoustic environment”*; nevertheless, an intermittency correction/penalty of 3dB has been applied to the predicted level.

6.2.2 BS4142 Assessment

The results of the assessment appear at Table 2 below, where the assessment indicates that the diesel generator would have a ‘low impact’ depending on the context. In addition, both the rating level [25 dB] and background level [28 dB] would be regarded as low.

Condition	Level
Measured/Predicted Ambient Level	20
Residual Level	0
Specific Noise Level	20
Tonal Correction	+2
Impulsive Character	0
Other Character	0
Intermittancy	+3
Rating Level [Specific + Character Correction]	25
Background Noise Level LA90	28
Excess over Background	-3
Indication of Low Impact, depending on the context	

Table 2: BS4142 Assessment – Properties to the East

6.3 Discussion of assessment

It is a requirement of the standard that factors affecting the assessment [uncertainty] are discussed:

1. *The above assessment is based on the generator being outside; whereas it would be inside a building of some form which would reduce noise to neighbours, i.e. the predictions are likely to over-estimate the impact of this source.*
2. Once the system is installed, electricity will either come via the solar panels or from the generator; given that the solar power would have a zero cost and diesel is not free, the operators will clearly wish to minimise use of the generator, i.e. the generator will

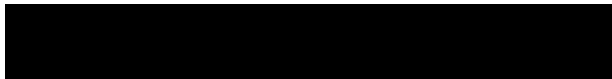
be used as little as possible, should consent for a property be granted.

3. The background noise measurements were made at a relatively quiet time of year [April] which would tend to underestimate typical noise levels; set against this they are based on a single location over several days, but from an examination of the sources of background noise [wind noise] it seems unlikely that they would vary significantly around the local area.
4. The corrections for character have been applied conservatively given that generator noise is predicted to be below background levels it seems unlikely that these character corrections [penalties] should be applied.
5. Overall, the assessment is considered sufficiently robust, and demonstrates that the noise of the diesel generator both now and in the future would have a 'low impact'.

7.0 CONCLUSIONS

Based on the measurements, the above assumptions and the predictions, a BS4142 assessment indicates that use of the generator, even were it to take place outdoors, would have a "low impact" on neighbours.

Especially given that the generator would always be housed inside a building a 'low impact' indicates that the impact of generator use should not bar the grant of planning consent for any future reapplication for a dwelling.



REFERENCES

1. Section 8.22 of "Acoustics and Noise Control - 2nd Edition" - Smith, Peters & Owen - 1996.
2. BS.8233:2014 "Guidance on Sound Insulation and noise reduction for buildings."
3. National Planning Policy Framework:
<http://www.communities.gov.uk/publications/planningandbuilding/nppf>
4. BS.4142:2014+A1:2019 "Methods for Rating and Assessing Industrial and Commercial Sound"
5. "BS.4142:2014+A1:2019 Technical Note Version 1.0" Association of Noise Consultants – March 2020

APPENDIX 1

EXPLANATION OF ACOUSTIC TERMS

The dB or the decibel, is the unit of noise. The number of decibels or the level, is measured using a sound level meter. It is common for the sound level meter to filter or 'weight' the incoming sound so as to mimic the frequency response of the human ear. Such measurements are designated **dB(A)**.

A doubling of the sound is perceived, by most people, when the level has increased by 10 dB(A). The least discernible difference is 2 dB(A). Thus, most people cannot distinguish between, say 30 and 31 dB(A).

The Background level of noise is most commonly represented by the level which is exceeded for 90% of the time i.e. the LA90.

If a noise varies over time then the **equivalent continuous level, or LAeq**, is the notional constant level of noise which would contain the same amount of acoustic energy as the time varying noise.

The following table gives an approximate indication of the comparative loudness of various noises expressed in terms of the A weighted scale:

Source of noise	dB(A)	Nature of Noise
Inside Quiet bedroom at night	25-30	Very Quiet
Quiet office	40-45	
Rural background noise	35-45	
Normal conversational level	55-65	
Busy restaurant	65-75	
Inside suburban electric train	70-80	
Hand clap @ 1m	75-85	
HGV accelerating @ 5m away	85-90	Very Loud

APPENDIX 2

QUALIFICATIONS AND EXPERIENCE OF M. A. KENYON

My full name is Melville Alexander Kenyon. I am the principal of the firm of Martec Environmental Consultants Ltd, a consultancy company that specialises in environmental noise assessment and control. I graduated in 1982 with a Bachelor's degree in Engineering and subsequently a Master's degree in Environmental Acoustics. I have been a corporate member of the professional body for noise and vibration specialists, the Institute of Acoustics, since 1988, and have sat on the British Standards Committee dealing with noise in buildings [BS.8233:1999].

I have lectured at Liverpool John Moores University on the Diploma of Acoustics course and at Manchester Metropolitan University on their Environmental Health degree course. I have been an MSc Dissertation Supervisor at The University of Manchester.

The firm of Martec Environmental Engineering was formed in the 1970's and joined The Association of Noise Consultants in 1996. It is now known as Martec Environmental Consultants Ltd.

Since its formation, Martec has advised many groups of both residents and developers about the problems of noise and vibration in the environment.

APPENDIX 3

Noise Measurements [dB free-field]

End Date & time	Duration	L _{Amax,F}	L _{Amin}	L _{Aeq}	LA01	LA10	LA50	LA90
18/04/2024 11:45:16	00:15:00	99.9	35.6	64.2	72.7	55.2	44.7	38.8
18/04/2024 12:00:16	00:15:00	60.3	37.9	46.3	55	48.7	44.5	40.6
18/04/2024 12:15:16	00:15:00	65.8	35.8	46.2	56.7	48.9	41.2	37.5
18/04/2024 12:30:16	00:15:00	57.5	35.5	44.5	52.5	47.6	42.4	39.1
18/04/2024 12:45:16	00:15:00	65.2	37.9	48.7	58.7	51.6	45.4	41.2
18/04/2024 13:00:16	00:15:00	60	38.1	46.4	52.8	49	45.2	41.3
18/04/2024 13:15:16	00:15:00	58	35.2	43.7	52.5	46.7	41.2	38.3
18/04/2024 13:30:16	00:15:00	67.1	39	48.6	57.2	51.6	45.9	41.5
18/04/2024 13:45:16	00:15:00	63.9	39.6	47.8	55.6	50.8	45.7	42.6
18/04/2024 14:00:16	00:15:00	65.1	40.7	48.3	55.3	50.5	46.9	44.2
18/04/2024 14:15:16	00:15:00	69.2	41.6	50.8	58.6	53.9	48.9	44.5
18/04/2024 14:30:16	00:15:00	65.1	40.3	50.7	59.6	54	48	43.9
18/04/2024 14:45:16	00:15:00	73.8	41.3	52.7	62	55.3	49.5	44.4
18/04/2024 15:00:16	00:15:00	66.9	42.8	52.9	61	55.8	50.9	47.1
18/04/2024 15:15:16	00:15:00	64.4	42.4	51.8	61	55.1	49.1	45.4
18/04/2024 15:30:16	00:15:00	66.6	41.7	52.2	61.5	55.9	49	45.4
18/04/2024 15:45:16	00:15:00	64	41.1	50.4	59.2	53.3	48.1	44.8
18/04/2024 16:00:16	00:15:00	68	43.3	51.9	60.8	54.9	49.2	46.1
18/04/2024 16:15:16	00:15:00	65.2	41.8	51.8	59.8	54.5	50.1	46.2
18/04/2024 16:30:16	00:15:00	66.2	43.9	50.9	59.3	53.3	49.1	46.4
18/04/2024 16:45:16	00:15:00	68.3	43.9	52.8	61.2	55.8	50.4	46.9
18/04/2024 17:00:16	00:15:00	79.3	44	53.4	61.4	55.5	51.1	47.5
18/04/2024 17:15:16	00:15:00	68.4	43.9	53.1	62	56.3	50.6	46.4
18/04/2024 17:30:16	00:15:00	71.4	45.7	53.5	61.8	56.3	51.5	48.1
18/04/2024 17:45:16	00:15:00	65.5	44.4	51.6	59.2	54.4	49.9	46.7
18/04/2024 18:00:16	00:15:00	65	39.7	49.1	56.2	52.1	47.3	43.3
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18/04/2024 18:30:16	00:15:00	69.2	43.7	51.7	60.7	54.4	49.2	46.2
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18/04/2024 20:30:16	00:15:00	72.1	42.8	54.1	63.9	57.3	50.8	47.2
18/04/2024 20:45:16	00:15:00	65.1	41	50.1	59.4	53.2	47.2	43.5
18/04/2024 21:00:16	00:15:00	63.2	38.7	48.2	57.1	51.3	45.5	42.3
18/04/2024 21:15:16	00:15:00	62.8	39.4	49.6	58.1	52.6	47.4	42.9

Noise Impact Report

18/04/2024 21:30:16	00:15:00	62.1	38.5	48.3	56.7	51.7	46	42.8
18/04/2024 21:45:16	00:15:00	60	38.2	46.9	55.6	49.8	44.9	41.3
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18/04/2024 22:15:16	00:15:00	60	35.9	44.6	51.8	47.4	43	39.7
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18/04/2024 23:00:16	00:15:00	60.7	38.9	46.7	55.3	49.4	44.7	41.5
18/04/2024 23:15:16	00:15:00	61.6	37.8	47.9	56.5	51.3	45.6	40.6
18/04/2024 23:30:16	00:15:00	61.1	36	47.1	56.6	50	44	40
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19/04/2024 00:30:16	00:15:00	58.4	34.4	42.2	50.3	46	39.4	36.9
19/04/2024 00:45:16	00:15:00	65.2	37.2	49	58.4	52.4	45.4	40.4
19/04/2024 01:00:16	00:15:00	68.3	45.6	54.6	62.8	57.6	52.5	48
19/04/2024 01:15:16	00:15:00	70.1	43.8	54.9	64.4	58.1	51.7	47.4
19/04/2024 01:30:16	00:15:00	71.1	42.4	54.4	63.7	56.9	51.6	46.8
19/04/2024 01:45:16	00:15:00	66.9	42.4	51.3	57.9	54.2	49.7	46.1
19/04/2024 02:00:16	00:15:00	65	38.7	49.6	58.1	52.5	47.1	43.2
19/04/2024 02:15:16	00:15:00	62.9	39.8	48.7	58	51.7	46	42
19/04/2024 02:30:16	00:15:00	66.9	38.5	51.6	61.7	55.1	47.9	42.1
19/04/2024 02:45:16	00:15:00	65.5	40.5	50.9	59.8	54.1	48.5	43.8
19/04/2024 03:00:16	00:15:00	63.2	42.1	51.1	59.5	54.5	48.6	45.3
19/04/2024 03:15:16	00:15:00	66.8	44	54.1	62.6	57.3	52	47.5
19/04/2024 03:30:16	00:15:00	65.9	45.5	54.1	61.6	57.2	52.5	48.7
19/04/2024 03:45:16	00:15:00	71.5	48.1	56.9	65.1	59.7	54.9	51.6
19/04/2024 04:00:16	00:15:00	71.7	45.7	55.3	64.1	58	52.9	49.7
19/04/2024 04:15:16	00:15:00	67.7	43.1	53.8	61.2	56.8	52.4	47.5
19/04/2024 04:30:16	00:15:00	66.3	41.8	53.9	60.7	56.7	52.7	48.8
19/04/2024 04:45:16	00:15:00	65.1	45.7	54.6	61.5	57.3	53.4	49.4
19/04/2024 05:00:16	00:15:00	61.8	39.2	49.8	56.9	53	48.2	41.9
19/04/2024 05:15:16	00:15:00	67.3	44.2	53.8	61.3	56.7	52.2	48.2
19/04/2024 05:30:16	00:15:00	70.9	44.4	56.2	63.3	58.9	55	51.1
19/04/2024 05:45:16	00:15:00	69.7	49.6	57.4	64.3	60.2	56.2	52.7
19/04/2024 06:00:16	00:15:00	66.9	44.5	54.7	61.1	57.7	53.7	49
19/04/2024 06:15:16	00:15:00	65	41.3	50	56.7	53.5	48.1	44.4
19/04/2024 06:30:16	00:15:00	59.6	43.2	49.9	55	53	48.5	45.5
19/04/2024 06:45:16	00:15:00	65.8	42.9	52.5	60	55.3	50.8	46.9
19/04/2024 07:00:16	00:15:00	63.4	43.7	52.4	59.5	56	50.6	46.6
19/04/2024 07:15:16	00:15:00	66.7	43.4	51.8	60.6	54.6	49.7	46.8
19/04/2024 07:30:16	00:15:00	60.5	42.6	49.5	54.7	51.9	48.7	46
19/04/2024 07:45:16	00:15:00	60.4	41.7	48	53.4	50.6	47.1	44
19/04/2024 08:00:16	00:15:00	60.9	40.7	47.7	54.4	50.4	46.4	43.2
19/04/2024 08:15:16	00:15:00	65.1	39.8	47	53.5	49.3	45.7	42.7
19/04/2024 08:30:16	00:15:00	61.1	38.2	45.6	52.7	47.9	44	41

Noise Impact Report

19/04/2024 08:45:16	00:15:00	60.8	37.8	46.6	53.2	49.4	45.3	40.9
19/04/2024 09:00:16	00:15:00	59.4	38.1	47.7	53.4	49.7	47.1	43.3
19/04/2024 09:15:16	00:15:00	90.3	39.5	63.7	77.5	53.9	46.7	42.5
19/04/2024 09:30:16	00:15:00	61.1	38.9	47.7	53.8	50.7	46.3	42.3
19/04/2024 09:45:16	00:15:00	69.2	36.8	46.8	52.9	49.6	45.7	40.4
19/04/2024 10:00:16	00:15:00	73.8	37.4	48.5	59.7	49	44	40.2
19/04/2024 10:15:16	00:15:00	70.4	32.7	48	60.5	50.7	41.4	35.4
19/04/2024 10:30:16	00:15:00	56.6	49.7	51	53.2	51.9	50.9	50.1
19/04/2024 10:45:16	00:15:00	64.1	32.8	45	51.7	50.3	40.8	36.2
19/04/2024 11:00:16	00:15:00	65.9	34.6	45.2	54.6	46.4	41.9	37.8
19/04/2024 11:15:16	00:15:00	78.1	31.7	52.9	65.4	48.7	41.8	36.9
19/04/2024 11:30:16	00:15:00	75.4	30.2	48.7	58.6	50.7	43.8	37
19/04/2024 11:45:16	00:15:00	69.2	29.7	44.8	52.8	49.3	38.5	32.4
19/04/2024 12:00:16	00:15:00	65.7	30.6	46	59.6	45.8	37.8	33.8
19/04/2024 12:15:16	00:15:00	62.8	29.6	42.6	49.9	46.3	39.8	33.6
19/04/2024 12:30:16	00:15:00	62.5	29.8	39.8	48.7	42.4	36.8	32.6
19/04/2024 12:45:16	00:15:00	55.4	31.7	44.3	50.9	47.7	42.9	37.2
19/04/2024 13:00:16	00:15:00	62.4	29.2	39.5	45.8	42.4	37.6	33.4
19/04/2024 13:15:16	00:15:00	66.7	30.1	41.5	51.1	43	37.4	33.5
19/04/2024 13:30:16	00:15:00	64	27.4	40.1	47.9	43.7	35.2	30.7
19/04/2024 13:45:16	00:15:00	76.2	29.2	55.2	69.7	51.1	39.4	35
19/04/2024 14:00:16	00:15:00	47.8	27.2	36.1	43.5	39.3	34.4	30.2
19/04/2024 14:15:16	00:15:00	48.3	26.6	34.7	44.4	37.3	31.9	28.5
19/04/2024 14:30:16	00:15:00	65.3	29.2	41.4	49.6	44.2	38.1	33.1
19/04/2024 14:45:16	00:15:00	69.4	29.5	43.5	51.4	44.7	38.1	33.6
19/04/2024 15:00:16	00:15:00	75.4	30	43.4	45.5	42.1	37.8	34
19/04/2024 15:15:16	00:15:00	71.3	26.9	40	44.1	38.2	33.3	30.2
19/04/2024 15:30:16	00:15:00	57.6	25.2	35.4	44.9	37.4	32.2	27.5
19/04/2024 15:45:16	00:15:00	75.1	28.2	43.7	54.5	41.1	34.1	30.7
19/04/2024 16:00:16	00:15:00	63.8	27.6	41.4	53	40.7	33.9	31
19/04/2024 16:15:16	00:15:00	77.2	30.2	49.8	56.6	43.6	37.6	32.4
19/04/2024 16:30:16	00:15:00	56	31.2	42.4	50.7	45.5	40.5	35.4
19/04/2024 16:45:16	00:15:00	58.6	33.2	39.3	46.2	41.1	37.8	35.2
19/04/2024 17:00:16	00:15:00	58.4	30.8	41	50.1	44.2	37.6	33.8
19/04/2024 17:15:16	00:15:00	71.1	27.9	43.4	50.7	39	33.5	30.2
19/04/2024 17:30:16	00:15:00	63.8	26.7	40.3	51.8	41.6	34.3	29.8
19/04/2024 17:45:16	00:15:00	69.1	26.7	45.9	59.3	44.2	33.5	29.4
19/04/2024 18:00:16	00:15:00	68.1	25	45.4	58.4	40.9	32.6	29.1
19/04/2024 18:15:16	00:15:00	68.6	25.5	42.8	50.7	37.5	31.9	28.9
19/04/2024 18:30:16	00:15:00	65.1	25.2	37.4	48.5	36.2	30.5	27.6
19/04/2024 18:45:16	00:15:00	63.3	24.9	40.3	51.5	41.9	31.2	27.4
19/04/2024 19:00:16	00:15:00	70.8	25.6	50.7	65.8	48.4	33.5	28.3
19/04/2024 19:15:16	00:15:00	66.9	27.9	43	53.1	43.5	37	31.3
19/04/2024 19:30:16	00:15:00	68.8	28.6	43.2	55.8	41	33.6	30.6
19/04/2024 19:45:16	00:15:00	62.9	29	42.8	53.9	45.2	36.6	32

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19/04/2024 20:00:16	00:15:00	61	34.7	44.8	52	47.7	43.2	38.4
19/04/2024 20:15:16	00:15:00	61.5	31.7	42.7	55.6	42.6	36.8	33.8
19/04/2024 20:30:16	00:15:00	63.5	30.5	43.2	57	40.8	34.6	32.3
19/04/2024 20:45:16	00:15:00	67	30.8	48.2	61.2	51	36.8	33.1
19/04/2024 21:00:16	00:15:00	63.6	31.4	40.7	52.5	40.8	33.8	32.4
19/04/2024 21:15:16	00:15:00	54.6	30.5	38.1	50.3	39.7	33.3	31.8
19/04/2024 21:30:16	00:15:00	50.2	28.6	32.7	42	33.6	30.9	29.6
19/04/2024 21:45:16	00:15:00	52.1	28.4	33.9	43.2	34.8	33	30.3
19/04/2024 22:00:16	00:15:00	60.3	27.4	48.8	51.9	50.9	50.1	30
19/04/2024 22:15:16	00:15:00	69.2	29	49	52.8	50.9	50.1	30.5
19/04/2024 22:30:16	00:15:00	46.8	28.1	31.9	35.6	33.4	31.7	29.5
19/04/2024 22:45:16	00:15:00	50.2	28.5	31.9	38.2	32.9	31	29.4
19/04/2024 23:00:16	00:15:00	50.9	28.2	32.3	37.8	33.9	31.2	29.3
19/04/2024 23:15:16	00:15:00	50.7	28.3	31.6	37.9	33	30.6	29.1
19/04/2024 23:30:16	00:15:00	46.9	28.7	32.9	43.4	33.4	31.1	29.9
19/04/2024 23:45:16	00:15:00	47.5	31.3	34.5	39.6	36.4	33.6	32.1
20/04/2024 00:00:16	00:15:00	42.6	29.4	32.9	37.8	34.7	32.3	30.4
20/04/2024 00:15:16	00:15:00	46.3	28.2	31	34.5	32.2	30.7	29.4
20/04/2024 00:30:16	00:15:00	49.9	28	31.4	36.5	32.1	30.3	29.1
20/04/2024 00:45:16	00:15:00	58.4	28.8	35	37.3	35.7	34.2	30.7
20/04/2024 01:00:16	00:15:00	46.6	27.8	31	36.7	32.2	30.4	28.9
20/04/2024 01:15:16	00:15:00	39.6	29.8	33	36.5	34.9	32.5	30.7
20/04/2024 01:30:16	00:15:00	40	27.3	31.7	37.6	35.4	29.8	28.4
20/04/2024 01:45:16	00:15:00	46.3	29.1	32.7	37.2	34.1	32.1	30.6
20/04/2024 02:00:16	00:15:00	51	28.6	34	38	36.2	33.5	30.2
20/04/2024 02:15:16	00:15:00	44.4	29.9	32.1	36.6	32.9	31.7	30.8
20/04/2024 02:30:16	00:15:00	44.5	29.9	34.1	38.6	35.8	33.8	31.3
20/04/2024 02:45:16	00:15:00	45.8	29.1	31.4	35.6	32	31.1	30.1
20/04/2024 03:00:16	00:15:00	58	29.5	35.7	48.7	33.9	32.2	31
20/04/2024 03:15:16	00:15:00	53.3	27.1	32.4	42.8	30.9	29.6	28.3
20/04/2024 03:30:16	00:15:00	44.1	28.3	32	38.8	33.8	30.8	29.3
20/04/2024 03:45:16	00:15:00	48.1	30.2	33.7	42	34.6	32.6	31.2
20/04/2024 04:00:16	00:15:00	52.4	28.5	33.4	42.8	33.9	32.2	29.7
20/04/2024 04:15:16	00:15:00	53.2	28.1	31.4	34.9	33.3	30.5	29.1
20/04/2024 04:30:16	00:15:00	41.8	29.3	32.4	35.9	33.7	32.2	30.5
20/04/2024 04:45:16	00:15:00	54.5	30.6	35.5	46.3	34.5	32.8	31.5
20/04/2024 05:00:16	00:15:00	47.5	31.1	34.7	42.3	36	33.6	32.4
20/04/2024 05:15:16	00:15:00	52.8	32	36.1	41	38.3	35.2	33.2
20/04/2024 05:30:16	00:15:00	51.5	32.2	37.9	45.9	39.5	36.6	34.5
20/04/2024 05:45:16	00:15:00	62.2	30.5	39.3	49.7	38.2	34.7	32.8
20/04/2024 06:00:16	00:15:00	49.1	31.8	37.3	44.3	39.7	35.9	33.7
20/04/2024 06:15:16	00:15:00	61.8	31.9	41.6	55.1	39.9	36.1	33.8
20/04/2024 06:30:16	00:15:00	49.9	32.3	37.5	43.9	39.7	36.5	34.4
20/04/2024 06:45:16	00:15:00	49.3	32.9	37.3	45	39.5	35.8	34.2
20/04/2024 07:00:16	00:15:00	56.7	31.2	37.5	45.2	38.6	35.4	33.3

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20/04/2024 07:15:16	00:15:00	54.9	31.4	37	44.2	38.7	35.5	33.4
20/04/2024 07:30:16	00:15:00	51.1	30.7	34.9	41.1	36.6	34.1	32.2
20/04/2024 07:45:16	00:15:00	48.2	30.8	36.2	43.2	38.4	35	32.8
20/04/2024 08:00:16	00:15:00	49.9	28.7	34.2	40.3	36.4	33.2	30.6
20/04/2024 08:15:16	00:15:00	56.3	27.2	35.2	45.8	36.6	32	29.4
20/04/2024 08:30:16	00:15:00	58.7	27.2	39.2	51.4	40.1	32.6	29.3
20/04/2024 08:45:16	00:15:00	65.2	27.6	39.8	52	39.1	32.6	29.7
20/04/2024 09:00:16	00:15:00	57.4	24.2	35.3	45.4	37.5	31	27.7
20/04/2024 09:15:16	00:15:00	62.8	24.3	38.2	47	40.2	34	29.1
20/04/2024 09:30:16	00:15:00	72.2	23.9	44.6	50.5	38.9	30.9	26.7
20/04/2024 09:45:16	00:15:00	55.7	24.4	37.7	48.6	40.9	32.3	27.1
20/04/2024 10:00:16	00:15:00	64.9	23.5	38.5	50.7	37	29.5	25.5
20/04/2024 10:15:16	00:15:00	57.5	24.2	36.4	45.9	39.4	31.7	26.9
20/04/2024 10:30:16	00:15:00	59.6	24.1	41.1	53	44.4	31.7	27.7
20/04/2024 10:45:16	00:15:00	60.4	25.7	33.9	41.3	36.2	30.8	28
20/04/2024 11:00:16	00:15:00	61.9	24.7	33.5	42.5	34	29.1	26.6
20/04/2024 11:15:16	00:15:00	64.1	25.5	41.4	53	39.7	30	27.7
20/04/2024 11:30:16	00:15:00	68.4	27.1	39.6	47.8	40.4	34.9	30.8
20/04/2024 11:45:16	00:15:00	79.7	28.2	54.1	64.1	46.5	34.5	31.1
20/04/2024 12:00:16	00:15:00	56.3	29.3	37.4	46.3	40	34.6	31.7
20/04/2024 12:15:16	00:15:00	59.9	26.2	38.1	48.9	40.2	32.6	28.6
20/04/2024 12:30:16	00:15:00	67.6	24.2	39.8	50	39	30.7	27.5
20/04/2024 12:45:16	00:15:00	63.5	24.2	39.2	49.8	39.6	31.8	27.3
20/04/2024 13:00:16	00:15:00	52.1	24.3	33.9	43.3	36.6	30.4	27
20/04/2024 13:15:16	00:15:00	62.9	25.6	46.1	59.2	48.3	34.8	29.5
20/04/2024 13:30:16	00:15:00	65.9	25.2	41	50.5	38.6	31.1	27.7
20/04/2024 13:45:16	00:15:00	61	25.1	35.3	44.6	36.5	30.8	27.5
20/04/2024 14:00:16	00:15:00	54.9	24.6	34.6	45.8	35.8	30.7	27.7
20/04/2024 14:15:16	00:15:00	52.7	24	34.6	45.5	37.5	29.8	26.5
20/04/2024 14:30:16	00:15:00	65.1	24	37.2	45.2	36.8	30.6	26.2
20/04/2024 14:45:16	00:15:00	73.7	24.2	42.4	46.5	38.6	31.3	27.7
20/04/2024 15:00:16	00:15:00	67.5	24.4	38.2	41.2	34.9	30.1	26.6
20/04/2024 15:15:16	00:15:00	63.3	25.8	35.1	42.5	35.6	31.3	28.5
20/04/2024 15:30:16	00:15:00	47.6	26.1	33.6	41.6	36.9	31.3	28.1
20/04/2024 15:45:16	00:15:00	48.9	28.6	35.8	43.6	39	33.5	30.5
20/04/2024 16:00:16	00:15:00	69.2	27.7	42.9	50.5	41.9	34.9	30.9
20/04/2024 16:15:16	00:15:00	63.6	27.3	38.7	49.9	40.6	33.2	30.3
20/04/2024 16:30:16	00:15:00	57.2	28.7	38.3	48.2	39.7	34.9	31.3
20/04/2024 16:45:16	00:15:00	66.1	28.5	46.3	60.7	44.8	34.3	31.2
20/04/2024 17:00:16	00:15:00	55.1	26.5	34.7	43.7	36.1	32.5	29.7
20/04/2024 17:15:16	00:15:00	60.5	25.8	35.3	43	35.5	31.3	28.8
20/04/2024 17:30:16	00:15:00	64.6	27.9	39.2	48.6	37.9	34.3	31.1
20/04/2024 17:45:16	00:15:00	58.4	25.9	37.2	46.3	39.2	33.9	29.9
20/04/2024 18:00:16	00:15:00	58.1	27.5	37.1	48.3	37.8	32.6	29.5
20/04/2024 18:15:16	00:15:00	59.8	27.9	34.6	41.4	37	32.5	30.3

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20/04/2024 18:30:16	00:15:00	48.3	27.6	34.2	40.8	36.5	33.1	30.7
20/04/2024 18:45:16	00:15:00	50.5	26.3	33.2	42.5	34.6	31.5	29.2
20/04/2024 19:00:16	00:15:00	54.2	24.7	33.5	42.4	35.1	30.8	28.2
20/04/2024 19:15:16	00:15:00	59.9	25.1	39.1	52	39.2	31	27.6
20/04/2024 19:30:16	00:15:00	71.7	26.9	47.9	61.7	45.6	32.5	29
20/04/2024 19:45:16	00:15:00	80.8	25.7	55	66.5	55.3	35.2	29.2
20/04/2024 20:00:16	00:15:00	62.3	24.3	41.7	54.2	42.4	31.9	27.5
20/04/2024 20:15:16	00:15:00	70.9	25.5	44.2	55.8	42.5	33.1	28.7
20/04/2024 20:30:16	00:15:00	63.6	24.5	41.5	54.3	41.9	31.3	28
20/04/2024 20:45:16	00:15:00	61.7	26.3	36.6	47.6	35.8	29.7	27.7
20/04/2024 21:00:16	00:15:00	67.1	24.5	36.1	44.4	34.2	29.6	27.1
20/04/2024 21:15:16	00:15:00	56.5	24.5	38.1	50.3	40.6	29.5	26.4
20/04/2024 21:30:16	00:15:00	54	25.7	34.6	45.9	36.6	29.4	27.6
20/04/2024 21:45:16	00:15:00	45.7	26.2	30.4	37.4	31.4	29.5	28.1
20/04/2024 22:00:16	00:15:00	41.8	28.2	30.8	36.5	31.9	30.4	29.1
20/04/2024 22:15:16	00:15:00	45.4	27.7	30.5	37.2	31.2	29.6	28.5
20/04/2024 22:30:16	00:15:00	48.3	27.7	30.9	36.7	31.9	29.6	28.4
20/04/2024 22:45:16	00:15:00	58.8	27.4	50.7	52.7	51.8	50.9	49.8
20/04/2024 23:00:16	00:15:00	61.2	27.6	42.5	51.9	50.8	30.3	28.8
20/04/2024 23:15:16	00:15:00	48.2	26.9	31.9	42.9	31.5	28.8	28
20/04/2024 23:30:16	00:15:00	40.9	26.1	28.8	34.1	29.9	28.4	27.2
20/04/2024 23:45:16	00:15:00	42.7	25.3	27.9	33.9	28.9	27.3	26.2
21/04/2024 00:00:16	00:15:00	44.9	25.9	29.2	35.9	29.9	28.5	27.3
21/04/2024 00:15:16	00:15:00	52.4	23.7	31.7	42.8	31.2	26.8	25
21/04/2024 00:30:16	00:15:00	46.5	23.7	29.4	38.8	32.2	26.5	25
21/04/2024 00:45:16	00:15:00	61.6	26	32.7	40.6	33.8	29.3	27.2
21/04/2024 01:00:16	00:15:00	58.6	25.3	30.7	37.8	31.2	28.4	26.5
21/04/2024 01:15:16	00:15:00	62.5	27.3	32.5	36.3	30.8	29.5	28.4
21/04/2024 01:30:16	00:15:00	45.4	25	28.3	33	29.9	27.6	26.2
21/04/2024 01:45:16	00:15:00	53.8	26.2	31.6	40.5	33.7	28.3	27.1
21/04/2024 02:00:16	00:15:00	49	26	29.5	35.3	30.3	28.4	27.1
21/04/2024 02:15:16	00:15:00	42.5	25	28.1	34	29	27.3	26.2
21/04/2024 02:30:16	00:15:00	39.1	26.6	28.1	29.9	28.9	28	27.1
21/04/2024 02:45:16	00:15:00	37.3	24.5	27.4	30.4	28.6	27.3	26
21/04/2024 03:00:16	00:15:00	36.8	24.2	27	32.6	28.2	26.4	25.1
21/04/2024 03:15:16	00:15:00	56	22.9	26.7	28.8	25.9	24.7	23.8
21/04/2024 03:30:16	00:15:00	49	23.3	30	42.4	31.6	25.1	24.1
21/04/2024 03:45:16	00:15:00	36.3	22.8	25.3	30	26.6	24.8	23.7
21/04/2024 04:00:16	00:15:00	53.2	24.4	33.2	44.5	36	27.8	25.6
21/04/2024 04:15:16	00:15:00	48.8	25	31	41.6	32.1	26.9	25.6
21/04/2024 04:30:16	00:15:00	48.7	23.8	32.6	43.3	36.6	26.6	25
21/04/2024 04:45:16	00:15:00	40.7	22.2	25.1	33.9	25.3	23.8	23
21/04/2024 05:00:16	00:15:00	46.9	22.7	28.7	41	28.2	24.7	23.4
21/04/2024 05:15:16	00:15:00	51.4	24	32.9	44.8	34.4	28.2	25.3
21/04/2024 05:30:16	00:15:00	52	27.4	37	45.8	40	34.5	30.4

Noise Impact Report

21/04/2024 05:45:16	00:15:00	52	28.8	36.3	47	37.9	33.7	31.2
21/04/2024 06:00:16	00:15:00	62.4	28.6	40.4	52	42.3	35.4	31.7
21/04/2024 06:15:16	00:15:00	62.9	28.7	44.3	57.3	45.7	36.6	32.1
21/04/2024 06:30:16	00:15:00	58.7	28	39.8	52.1	41.2	35	31.2
21/04/2024 06:45:16	00:15:00	61.3	26.5	39.5	51.5	40.6	33.8	30.1
21/04/2024 07:00:16	00:15:00	50.6	26.8	36.3	47	38.7	33.2	29.9
21/04/2024 07:15:16	00:15:00	58.2	28.2	38.3	49.8	40.7	33	30.1
21/04/2024 07:30:16	00:15:00	55.6	27.6	38.4	49.9	40.6	33.7	30.5
21/04/2024 07:45:16	00:15:00	58.1	28.3	40	52.2	41.3	33.7	30.9
21/04/2024 08:00:16	00:15:00	68.3	28.4	40	50.4	40.2	33.7	30.7
21/04/2024 08:15:16	00:15:00	53.1	27.2	35.2	44.4	37.7	32.7	29.9
21/04/2024 08:30:16	00:15:00	63.6	28	38.8	47.5	39.9	34.3	31.1
21/04/2024 08:45:16	00:15:00	56.7	27.6	35.4	43.9	38.1	32.8	30
21/04/2024 09:00:16	00:15:00	68.3	26.8	39.6	47.5	38.1	32.4	29.5
21/04/2024 09:15:16	00:15:00	60.3	27.6	35.2	42.8	36.8	32.3	29.8
21/04/2024 09:30:16	00:15:00	59.9	27.7	37	45.6	39.3	33.8	30
21/04/2024 09:45:16	00:15:00	67.1	27.6	45.6	58	45.6	33.9	30.4
21/04/2024 10:00:16	00:15:00	70.9	28.4	43.3	52.6	44.4	36.5	31.6
21/04/2024 10:15:16	00:15:00	62.6	29.2	41.2	51.9	43.1	35.7	32.3
21/04/2024 10:30:16	00:15:00	70.4	27.5	46.7	58.7	47.1	36.8	32
21/04/2024 10:45:16	00:15:00	67.4	26.8	42.8	54.7	45	33.6	29.7
21/04/2024 11:00:16	00:15:00	60.6	28.5	36.8	45.9	38.5	33.5	30.7
21/04/2024 11:15:16	00:15:00	59.5	27.8	41.7	54	43.7	35.1	31
21/04/2024 11:30:16	00:15:00	50.5	27.3	36	45.6	38.6	33.1	30
21/04/2024 11:45:16	00:15:00	51.3	28.4	36.3	45.9	38.7	33.9	31.2
21/04/2024 12:00:16	00:15:00	71.2	26.2	44.2	57.3	39.6	33.7	29.6
21/04/2024 12:15:16	00:15:00	59.7	24.5	37.5	48.4	38.3	31	27.7
21/04/2024 12:30:16	00:15:00	67.8	28.1	40.4	52.1	41.2	32.5	29.6
21/04/2024 12:45:16	00:15:00	69.8	26.8	41.1	49.2	39.5	32.3	29
21/04/2024 13:00:16	00:15:00	54.4	26.3	36	46.9	38.7	31.5	28.5
21/04/2024 13:15:16	00:15:00	66.7	25.9	40	50.4	42.6	32.3	28.4
21/04/2024 13:30:16	00:15:00	61.7	23.7	35	44.8	36.3	30.3	26.1
21/04/2024 13:45:16	00:15:00	65.9	24.6	37.6	47.6	37.1	29.7	27
21/04/2024 14:00:16	00:15:00	54	25.1	33.2	41.7	35.8	30.7	27.5
21/04/2024 14:15:16	00:15:00	56.1	24.7	37.7	50	38.8	31.6	27.3
21/04/2024 14:30:16	00:15:00	67.2	24.3	37.6	46.2	36.5	30.6	27.3
21/04/2024 14:45:16	00:15:00	67.9	23.7	45.1	59.8	39.2	31.3	27
21/04/2024 15:00:16	00:15:00	69.6	23.4	45.7	55.7	39	30.9	26.6
21/04/2024 15:15:16	00:15:00	63	24.4	38.6	51.4	37.5	30.4	27.3
21/04/2024 15:30:16	00:15:00	65.7	25.7	46.2	59.3	47.3	32.4	28.2
21/04/2024 15:45:16	00:15:00	59.6	24.7	40.6	52.5	43.8	31.3	27.4
21/04/2024 16:00:16	00:15:00	61.2	24.5	42	53	46.3	34.1	28.1
21/04/2024 16:15:16	00:15:00	65.7	25.2	41.6	51.8	40.7	33.3	29.1
21/04/2024 16:30:16	00:15:00	53.1	25.5	36.6	46.6	39.7	33	28.7
21/04/2024 16:45:16	00:15:00	57.7	25.2	36	46.6	38	30.8	27.3

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21/04/2024 17:00:16	00:15:00	65.6	27.1	46	57.8	48.1	38	30.8
21/04/2024 17:15:16	00:15:00	64.8	25	42.7	57.3	39.3	31	27.6
21/04/2024 17:30:16	00:15:00	62.7	24.3	37.6	48.8	40.4	30.8	27.2
21/04/2024 17:45:16	00:15:00	60.2	24.9	40.5	52.1	44.2	32.2	27.7
21/04/2024 18:00:16	00:15:00	59.7	25.2	41.2	53	44.3	33.1	27.9
21/04/2024 18:15:16	00:15:00	65.9	24.9	45.1	58.4	46.5	33.6	28.3
21/04/2024 18:30:16	00:15:00	74.8	50.6	58.6	70.5	61.7	51.9	51
21/04/2024 18:45:16	00:15:00	75.5	50.2	58.1	69.7	61.3	51.5	50.3
21/04/2024 19:00:16	00:15:00	67.4	50	53.6	64.3	54.2	50.9	50.1
21/04/2024 19:15:16	00:15:00	65.4	26.1	46.9	52.6	51.5	38.6	30.7
21/04/2024 19:30:16	00:15:00	57.8	25.6	43.2	52.8	48.1	34.6	28.5
21/04/2024 19:45:16	00:15:00	62.2	25.2	38.6	49	40.9	32.9	28.3
21/04/2024 20:00:16	00:15:00	66.4	25.2	43.5	55.8	42.5	33.2	28.5
21/04/2024 20:15:16	00:15:00	63.4	26.6	38.7	48.9	40.3	32.8	29
21/04/2024 20:30:16	00:15:00	70.1	26	45.5	57.2	39.5	32	28.6
21/04/2024 20:45:16	00:15:00	66.9	23.9	38.7	49.4	41.3	30.5	26.4
21/04/2024 21:00:16	00:15:00	57.3	25.3	37.8	50.8	38.7	29.7	27.2
21/04/2024 21:15:16	00:15:00	54	24.9	33.8	46.9	31.5	27.5	25.6
21/04/2024 21:30:16	00:15:00	51.7	26	34.7	42.2	39.7	30.6	27.2
21/04/2024 21:45:16	00:15:00	46.4	25.3	29.4	36	31.9	27.7	26.3
21/04/2024 22:00:16	00:15:00	41.9	25.4	27.9	33	29.2	27.4	26.1
21/04/2024 22:15:16	00:15:00	42.7	24.6	29.2	38.4	30.9	27.1	25.8
21/04/2024 22:30:16	00:15:00	36.7	24.7	27	31.2	28.4	26.6	25.4
21/04/2024 22:45:16	00:15:00	48.2	23.5	29.2	38	31.2	26	24.3
21/04/2024 23:00:16	00:15:00	41.5	22.8	26.1	30.6	27.8	25.5	23.6
21/04/2024 23:15:16	00:15:00	34.3	24.8	26.4	29.5	27.4	26.2	25.2
21/04/2024 23:30:16	00:15:00	33.5	24.9	26.8	29.1	27.8	26.7	25.8
21/04/2024 23:45:16	00:15:00	48	24.4	28.4	33.7	29.4	27.4	25.9
22/04/2024 00:00:16	00:15:00	37.1	22.8	25	29.6	26	24.5	23.3
22/04/2024 00:15:16	00:15:00	41.6	22.4	26.3	36.6	27.7	23.9	23.1
22/04/2024 00:30:16	00:15:00	40.7	22.8	25.1	29.7	25.9	24.6	23.4
22/04/2024 00:45:16	00:15:00	42.2	22.9	26.6	36.5	27.5	24.6	23.5
22/04/2024 01:00:16	00:15:00	41.5	22.9	26.3	32.9	27.8	25.1	24
22/04/2024 01:15:16	00:15:00	52	22.2	27.4	34.9	26.9	24.5	23.1
22/04/2024 01:30:16	00:15:00	60.3	23.4	37.6	52.1	33.8	26.8	24.4
22/04/2024 01:45:16	00:15:00	61.2	25.3	38.6	52.6	33.3	27.5	26.1
22/04/2024 02:00:16	00:15:00	49.8	24.3	30.6	42.7	29.8	26.3	25.1
22/04/2024 02:15:16	00:15:00	53.8	23.2	34.7	48	35.6	25.4	24.1
22/04/2024 02:30:16	00:15:00	55	22.1	29	38.5	25.9	23.4	22.4
22/04/2024 02:45:16	00:15:00	43.6	21.9	26	36.7	25.7	23.3	22.3
22/04/2024 03:00:16	00:15:00	43.9	19.7	23.5	31.1	23.8	22.3	20.5
22/04/2024 03:15:16	00:15:00	52.2	19.3	23.9	28.7	22.5	20.7	19.8
22/04/2024 03:30:16	00:15:00	46.9	19	27.8	40.8	27.9	20.4	19.3
22/04/2024 03:45:16	00:15:00	44.1	19.1	22.7	32.3	23.3	20.4	19.3
22/04/2024 04:00:16	00:15:00	46.1	19.1	31	42	35.2	22.4	20

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22/04/2024 04:15:16	00:15:00	42.9	19.1	26.4	37.7	28.8	20.7	19.5
22/04/2024 04:30:16	00:15:00	41.6	19.5	23.8	28.5	26.4	22.9	20.3
22/04/2024 04:45:16	00:15:00	43.9	21.4	24.5	29.5	26.3	23.5	22.1
22/04/2024 05:00:16	00:15:00	47.8	20.8	29.1	41.7	29.1	24.5	22.7
22/04/2024 05:15:16	00:15:00	45.3	23.4	33.5	42.3	37.7	29.1	25
22/04/2024 05:30:16	00:15:00	52.1	27.9	36.6	46.7	38.4	34.1	31.1
22/04/2024 05:45:16	00:15:00	50.4	28.2	35.3	45	37.3	33.4	30.5
22/04/2024 06:00:16	00:15:00	59.8	27.3	38	48.8	38.7	33.5	30.4
22/04/2024 06:15:16	00:15:00	59.2	27.1	37.2	45	39.4	34.6	31.1
22/04/2024 06:30:16	00:15:00	66.4	27.3	41.4	54	39.5	34.2	30.7
22/04/2024 06:45:16	00:15:00	72	27.2	42.5	48.2	39.2	33.6	30
22/04/2024 07:00:16	00:15:00	66.7	27.3	40.9	52.7	38.5	33.5	29.9
22/04/2024 07:15:16	00:15:00	60.4	26.5	39.3	51.4	41.1	34.5	29.6
22/04/2024 07:30:16	00:15:00	64.5	27.3	46.5	59.7	46.3	34.1	30.2
22/04/2024 07:45:16	00:15:00	61.8	28.4	40.2	49.1	42.4	36.7	31.9
22/04/2024 08:00:16	00:15:00	71.5	27.6	49.5	62.4	50.3	35.7	31.3
22/04/2024 08:15:16	00:15:00	63.1	28	38.9	47.5	41.3	34.9	30.5
22/04/2024 08:30:16	00:15:00	61.5	28.5	46.1	59	47.8	39.1	33.1
22/04/2024 08:45:16	00:15:00	63.5	28.4	47.1	59.7	49.9	39.1	33.6
22/04/2024 09:00:16	00:15:00	59.7	25.5	36	44	38.6	33.1	29.2
22/04/2024 09:15:16	00:15:00	70.8	25.3	45	51.7	49.6	35.1	28.5
22/04/2024 09:30:16	00:15:00	64.9	26.3	49	51.7	50	49.3	33.6
22/04/2024 09:45:16	00:15:00	64.1	23.9	44.8	57.4	46.9	33.3	27.4
22/04/2024 10:00:16	00:15:00	71.7	24.4	42.7	53.2	43.9	34.8	28.5
22/04/2024 10:15:16	00:15:00	60.6	24.4	41.5	52.9	44.1	33.5	28.1
22/04/2024 10:30:16	00:15:00	72.3	23.6	48.9	54.1	51.7	50	27.1
22/04/2024 10:45:16	00:15:00	68.9	24.2	39.7	51.2	39.9	31.9	27.5
22/04/2024 11:00:16	00:15:00	66.1	25.5	40.8	49.7	41.9	34.2	28.7
22/04/2024 11:15:16	00:15:00	62.5	24.7	37.3	48	38.8	30.6	26.9
22/04/2024 11:30:16	00:15:00	55.5	24.3	35.4	45.9	38.4	30.7	26.9
22/04/2024 11:45:16	00:15:00	59	26.8	36.2	46.6	38.5	31.7	29.1
22/04/2024 12:00:16	00:15:00	62.6	25.4	39	50.5	40.9	32.4	28.2
22/04/2024 12:15:16	00:15:00	61.5	23.3	42.9	52.7	45.4	39.3	27.4
22/04/2024 12:30:16	00:15:00	56.5	24.1	36.6	49.1	39.1	30.2	26.3
22/04/2024 12:45:16	00:15:00	53.5	22.1	36.5	46.3	40.4	32.1	25.9
22/04/2024 13:00:16	00:15:00	56.7	22.8	35.4	45.6	37.9	29.4	25.4
22/04/2024 13:15:16	00:15:00	58.8	23.6	39.4	51.5	41.9	31	26.3
22/04/2024 13:30:16	00:15:00	62.2	26.2	40.5	52	42.9	34.1	28.9
22/04/2024 13:45:16	00:15:00	54.3	25.7	38.1	49.4	40.6	32.3	28.5
22/04/2024 14:00:16	00:15:00	59.5	28.2	40.9	51.9	44.4	34.2	30.3
22/04/2024 14:15:16	00:15:00	53.8	33.4	41.7	48.6	44.6	40.5	35.8
22/04/2024 14:30:16	00:15:00	51	29.9	38.3	44.6	40.8	37.3	33
22/04/2024 14:45:16	00:15:00	72.9	29.5	50.6	64.2	40.8	35.9	32.6
22/04/2024 15:00:16	00:15:00	67.3	27.6	45.5	60.2	42.9	34.8	31.2
22/04/2024 15:15:16	00:15:00	66.2	26.2	40.1	47.7	38.4	31.8	28.7

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22/04/2024 15:30:16	00:15:00	56.7	25.6	38.6	49.8	41.4	32.8	28.6
22/04/2024 15:45:16	00:15:00	60.3	23.8	37.1	45.6	38.1	31.2	27
22/04/2024 16:00:16	00:15:00	54.2	23.2	34.4	44.2	37.8	29.9	26.1
22/04/2024 16:15:16	00:15:00	58.2	23.3	34.9	46.4	35.7	29.1	25.8
22/04/2024 16:30:16	00:15:00	62.8	23.8	38	47.3	40	31.9	26.9
22/04/2024 16:45:16	00:15:00	58.8	22.7	38.6	49.9	40.3	32.8	26.7
22/04/2024 17:00:16	00:15:00	56.2	22	36.1	46.9	37.8	29	24.3
22/04/2024 17:15:16	00:15:00	51.9	22.1	36.7	46.7	40.6	31.6	25.6
22/04/2024 17:30:16	00:15:00	50.7	23.7	34.1	44	37.1	30.8	26.8
22/04/2024 17:45:16	00:15:00	64.3	26.2	41.5	52.9	40.9	34.9	30
22/04/2024 18:00:16	00:15:00	54.6	24.3	38.7	50.2	41.8	32.5	27.6
22/04/2024 18:15:16	00:15:00	53.9	24.2	37.8	49	41.5	30.2	26
22/04/2024 18:30:16	00:15:00	60.7	23.4	37.3	48.9	39.3	30.8	26
22/04/2024 18:45:16	00:15:00	62.1	22.2	38.8	51.2	39.7	30.3	25.3
22/04/2024 19:00:16	00:15:00	63.8	22.6	41.2	54.3	41.5	33.5	26.5
22/04/2024 19:15:16	00:15:00	67.9	22.5	45.8	59.8	43.6	30.6	25.4
22/04/2024 19:30:16	00:15:00	65.9	23.9	45.6	60.3	43.4	32.6	27.4
22/04/2024 19:45:16	00:15:00	59	23.1	37.3	49.1	39.9	30.8	26.2
22/04/2024 20:00:16	00:15:00	59.4	22.5	36.2	47.8	36.9	30.4	26.3
22/04/2024 20:15:16	00:15:00	59.5	23.6	37.1	47.7	40.3	31.5	26.7
22/04/2024 20:30:16	00:15:00	58.8	24.8	38	50.6	37.1	30.6	27.3
22/04/2024 20:45:16	00:15:00	59.7	24	39.3	53.9	35.1	28.8	26.2
22/04/2024 21:00:16	00:15:00	58	25.9	34.2	44.5	36.4	29.8	27.5
22/04/2024 21:15:16	00:15:00	60.1	25.6	39	51.8	39.7	29.1	27.1
22/04/2024 21:30:16	00:15:00	45.4	23.1	28.3	37.7	29.9	26.3	24.5
22/04/2024 21:45:16	00:15:00	46.3	23	29.3	40.3	30.6	26.5	25
22/04/2024 22:00:16	00:15:00	39	24.5	27.9	33.3	29.8	27	25.4
22/04/2024 22:15:16	00:15:00	60.7	24	46.1	52.5	51.3	30.6	27.1
22/04/2024 22:30:16	00:15:00	65	50.2	51.2	52.7	51.8	51.2	50.2
22/04/2024 22:45:16	00:15:00	61.8	22.9	45.2	51.9	51.3	28.1	24.5
22/04/2024 23:00:16	00:15:00	45.8	25.4	29.4	37.4	30.9	27.9	26.6
22/04/2024 23:15:16	00:15:00	45.5	27	29.9	35.5	30.8	29.3	28.1
22/04/2024 23:30:16	00:15:00	51.9	26.1	29.7	35.8	30.6	28.5	27
22/04/2024 23:45:16	00:15:00	61.4	26	32.6	35.7	30.5	28.6	27.2
23/04/2024 00:00:16	00:15:00	54.1	28.2	33.4	45	31.7	30.1	29.1
23/04/2024 00:15:16	00:15:00	46.9	27.5	30	36	30.8	29.3	28.2
23/04/2024 00:30:16	00:15:00	43.7	26.1	29.2	36.8	29.9	28.2	27.1
23/04/2024 00:45:16	00:15:00	43	26.1	29.1	32.8	30.6	28.6	27.2
23/04/2024 01:00:16	00:15:00	46.6	25.2	28.9	38.9	28.8	27.3	26.1
23/04/2024 01:15:16	00:15:00	40.6	25.4	27.9	32.4	28.9	27.4	26.3
23/04/2024 01:30:16	00:15:00	51.6	25.3	30.7	41.4	30.7	27.2	26.1
23/04/2024 01:45:16	00:15:00	45.8	23.6	27.5	35.5	27.9	26.1	24.6
23/04/2024 02:00:16	00:15:00	61.7	24	34.4	43	28.3	26.4	25
23/04/2024 02:15:16	00:15:00	47.1	25.3	28.8	36.4	30.4	27.1	26.1
23/04/2024 02:30:16	00:15:00	59.5	24.9	36.3	50	30.9	27.5	26

Noise Impact Report

23/04/2024 02:45:16	00:15:00	58.1	24.7	32	39.9	29.1	27.1	26
23/04/2024 03:00:16	00:15:00	47	24.2	27.5	34.8	27.9	26	25.1
23/04/2024 03:15:16	00:15:00	48.6	25.6	28.8	35.9	29.1	27.4	26.3
23/04/2024 03:30:16	00:15:00	49	26	28.4	34.4	28.9	27.6	26.8
23/04/2024 03:45:16	00:15:00	48.6	25.6	28.5	32.8	29.2	27.5	26.4
23/04/2024 04:00:16	00:15:00	46.2	25	29.5	39.6	29.9	27.7	26.4
23/04/2024 04:15:16	00:15:00	46.7	23.5	29.6	40.2	30.8	26.7	24.8
23/04/2024 04:30:16	00:15:00	47.5	24.6	27.9	33.8	28.9	26.8	25.4
23/04/2024 04:45:16	00:15:00	47.3	23	30.7	42.7	32.3	26.7	24.6
23/04/2024 05:00:16	00:15:00	49.1	24	32.5	42.6	35.4	28.8	25.8
23/04/2024 05:15:16	00:15:00	51.9	26.2	37.3	47.9	40.8	32.7	28.7
23/04/2024 05:30:16	00:15:00	51.3	26.8	35.6	45.5	37.9	32.7	29.6
23/04/2024 05:45:16	00:15:00	57.1	27.5	36.5	46.2	38.3	33.8	30.2
23/04/2024 06:00:16	00:15:00	48.3	28.6	35.3	42.7	37.8	33.8	31.2
23/04/2024 06:15:16	00:15:00	60	26.2	36.1	47.3	36.6	31.6	29
23/04/2024 06:30:16	00:15:00	57.8	28.5	36.4	46.3	38.5	32.6	30.4
23/04/2024 06:45:16	00:15:00	61.3	29.6	39.8	51.5	41.2	34	31.2
23/04/2024 07:00:16	00:15:00	52.9	29.2	36.3	46.1	38.1	34	31.4
23/04/2024 07:15:16	00:15:00	64	28.3	39.9	50.5	40.7	34.6	31.1
23/04/2024 07:30:16	00:15:00	59.8	27.1	41.7	55.5	40.4	33.1	29.7
23/04/2024 07:45:16	00:15:00	55	26.2	37.3	47.2	40.4	33.5	29.2
23/04/2024 08:00:16	00:15:00	59.7	24.7	40.4	53.9	39.7	30.6	27.3
23/04/2024 08:15:16	00:15:00	67.8	25.3	42.4	54.3	43.3	32.9	28.2
23/04/2024 08:30:16	00:15:00	74.2	26.6	56.6	70.3	57.2	43	30.7
23/04/2024 08:45:16	00:15:00	59.6	25.5	35.7	47.3	36.5	30.7	28
23/04/2024 09:00:16	00:15:00	75.6	24.5	48.5	56.2	41.1	32.4	27.3
23/04/2024 09:15:16	00:15:00	55.4	23.9	33.9	43.7	36.1	30.4	26.4
23/04/2024 09:30:16	00:15:00	56.6	23.8	35.4	46.9	36.8	31.3	27.1
23/04/2024 09:45:16	00:15:00	61.2	25.1	42.3	55.4	43.1	32.1	28
23/04/2024 10:00:16	00:15:00	68.3	24.8	45.1	58.6	42.2	31.8	27.7
23/04/2024 10:15:16	00:15:00	59.7	27.2	37.2	46.5	39.6	34.1	30.4
23/04/2024 10:30:16	00:15:00	60.1	24.2	38.2	48.5	41.1	32.7	28.3
23/04/2024 10:45:16	00:15:00	57.2	23.2	38	49.3	40.9	31.9	27.2
23/04/2024 11:00:16	00:15:00	58	28.7	38.8	46	41.7	37	32.3
23/04/2024 11:15:16	00:15:00	68.9	29.6	44.1	55	44.3	36.3	32.8
23/04/2024 11:30:16	00:15:00	63.3	25.8	41.6	55.1	39	31.9	28.2
23/04/2024 11:45:16	00:15:00	50.1	25.6	35.7	45.3	38.8	32.5	28.8
23/04/2024 12:00:16	00:15:00	72.6	26.1	39.7	47.7	39.3	32.9	28.7
23/04/2024 12:15:16	00:15:00	62.8	24.6	37.1	47	38.1	31.8	28.2
23/04/2024 12:30:16	00:15:00	64	24.9	38.9	47.8	36.2	31.2	27.5
23/04/2024 12:45:16	00:15:00	65.5	24.6	40.4	51	39.4	31.5	27.4
23/04/2024 13:00:16	00:15:00	64.9	26.3	38.5	47.5	37.8	32.5	29
23/04/2024 13:15:16	00:15:00	61.5	24.7	36	47.2	36.1	29.8	26.6
23/04/2024 13:30:16	00:15:00	62.9	23.8	37.8	48.9	39.6	31.8	26.8
23/04/2024 13:45:16	00:15:00	53.7	22.2	35.4	46.6	38.8	29.7	24.9

Noise Impact Report

23/04/2024 14:00:16	00:15:00	49.3	22.9	30.9	40.5	32.6	28.4	25.2
23/04/2024 14:15:16	00:15:00	71.9	23.2	42.4	42.2	35.7	30.3	26.3
23/04/2024 14:30:16	00:15:00	68.3	22.6	39.2	44.6	36.2	30.4	26.9
23/04/2024 14:45:16	00:15:00	55.6	26.5	36.4	45	38.3	34.3	30.5
23/04/2024 15:00:16	00:15:00	54.5	25.8	34.9	45.1	37.8	31.1	28.5
23/04/2024 15:15:16	00:15:00	49.1	26.2	35.8	44.9	39.2	32.8	29.2
23/04/2024 15:30:16	00:15:00	54	27	37	44.6	40.9	34.4	31.3
23/04/2024 15:45:16	00:15:00	55.7	26.4	37.4	48.5	39	33.9	30.2
23/04/2024 16:00:16	00:15:00	53.3	25.4	36.4	47.3	38.8	32.6	28.8
23/04/2024 16:15:16	00:15:00	69.2	25.4	40.4	43.4	36.9	31.8	28.2
23/04/2024 16:22:50	00:07:34	72.2	25.3	46.5	58.3	43.6	33.6	28.1

**APPENDIX 4
DETAILS OF GENERATOR**



P6000S 400V 50HZ #IPP



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Main Features		
Frequency	Hz	50
Voltage	V	400/230
Power factor	cos ϕ	0.8
Phase		3

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Power Rating		
Emergency Standby Power ESP	kVA	6.9
Emergency Standby Power ESP	kW	5.5
Continuous power COP	kVA	5.6
Continuous power COP	kW	4.5

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Single Phase Power Rating		
Single phase Maximum Power	kVA	3.2
Single phase continuous power COP	kVA	3.0

Ratings definition (According to standard ISO8528 1:2005)

Engine specifications		
Engine Brand		Yanmar
Model		L100N Electric
Engine cooling system		Air
Displacement	cm ³	435
Aspiration		Natural
Operating Speed-Nominal	rpm	3000
Speed governor		Mechanical
Fuel		Diesel
Oil capacity	l	1.6
Starting system		Electric
Alternator Specifications		
Type		
Class		H
IP protection		23
Poles		2
Frequency	Hz	50
Voltage regulation system		Compound
Dimensional data		
Length	(L) mm	970
Width	(W) mm	580
Height	(H) mm	927
Dry weight	kg	203
Fuel tank capacity	l	19
Autonomy		
Fuel consumption at 75% of Load	l/h	1.46
Fuel consumption at 100% of Load	l/h	1.94
Running time at 75% of load	h	13.01
Running time at 100% of load	h	9.79
Noise level		
Guaranteed noise level (LWA)	dB(A)	84
Noise pressure level @ 7 m	dB(A)	56



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GENSET CONTROL PANELS (IPP)

Mounted on the genset and complete of: instrumentation, control, protection of the generating set and sockets.

COMMANDS

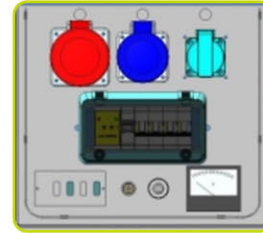
- Start selector switch with key: OFF - ON - START

INSTRUMENTATION

- Voltmeter

PROTECTIONS

- Circuit breaker
- Isometer protection (IPP)
- Engine Protection unit: High engine temperature; Low oil pressure; Low Fuel Level; Battery Charger alternator failure.



SOCKET TYPE

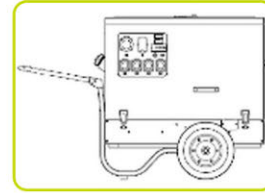
SCHUKO 230V 16A IP54	1
2P+T CEE 230V 16A IP44	1
3P+N+T CEE 400V 16A IP44	1

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ACCESSORIES

TRANSPORTATION KIT

with folding handles



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The information is aligned with the Data file at the time of download. Printed on 12/03/2024 (ID 2539)

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