

Planning Condition 34 Electrical Substation

Mount Pleasant Place, Phase 2



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Introduction

This document has been prepared by Ryder Architecture on behalf of Taylor Wimpey Central London & McAleer and Rush to illustrate the location and design of the Electrical Substation in Phase 2 of the development.

Electrical Substation

Mount Pleasant Phase 2 – Electrical Substations

This report illustrates the location and design of the electrical substation in Phase 2 of the development.

Planning Condition 34 - Electrical Substations

Details of the electrical substations including their acoustic specifications and cladding / facing materials, where relevant, shall be submitted to and approved in writing by the Local Planning Authority prior to the commencement of superstructure works in the relevant section first occupation of the relevant block .

Location

The marked up general arrangement plan that follow illustrate the location of the electrical substation at the ground floor of Block C.

The substation's steel doors and louvre panels have a metallic dark grey powder coated finish to complement the dark grey window and door frames of the development.

The external paving materials and substrate anticipate the loads of the substation service vehicles.

Mechanical Plant Acoustics

An acoustic assessment 'E20135 210507 CT F1-D' has been prepared by Adnitt Acoustics. The report sets out the limits for indoor ambient noise levels adjacent to mechanical plant as advised in the Employers Requirements and the predicted substation noise levels as measured at an equivalent substation.

The assessment finds that the proposed separating floor and wall constructions around the substation will be sufficient to provide the necessary noise reduction.

Planning Condition 28 - Noise (Before Plant Installation)

The acoustic assessment further finds that acoustic louvres or acoustic doors will be required fronting the substation to reduce the noise emissions from the substation to meet Local Authority requirements.

PowerOn and UKPN's plant will be mounted on suitable anti vibration pads as specified and installed by PowerOn.

Details of acoustic doors and acoustic isolation measures will be agreed separately with Camden Council under planning condition 28 Noise (Before Plant Installation) prior to occupation.

Fire separation

The substation room has been developed as a 4 hour fire rated enclosure as per PowerOn and UKPN and in line with the developments fire strategy. The doors and louvres are to be installed to PowerOn and UKPN's specification.

Phasing

The attached phasing plan illustrates the sectional completion of the development.

Electrical Substation General Arrangement Plan



Electrical Substation Elevation and Finish

Planning Condition 34 - Electrical Substations

It is proposed that the louvred steel doors to the substation will be polyester powder coated RAL 7012 to match the adjacent window and door frames. The dark grey polyester powder coating will be applied to the doors by Power On / Sunray.

The powder coating reference has also been submitted to LB Camden under Condition 12 -External Material Samples.



Photo of powder coated sample RAL 7012.





Detailed Elevation 1-50

Phasing Plan





Appendices

Appendices documents:

Substation construction details

P-0095762-DWG-022-Rev3-Construction Details Drawing- Phase 2 (002)

Substation specification 5607030 Material specification

Substation acoustic performance provided by PowerOn

GTC Substation Installations _Noise_ 2013

Substation Noise Assessment

E20135 210507 CT F1-D prepared by Adnitt Acoustics

GUIDANCE NOTES ONLY

FOR THE ATTENTION DEVELOPER / BUILDER.

THIS DRAWING IS INTENDED TO INDICATE THE MINIMUM REQUIREMENTS FOR THE INSTALLATION OF ENC APPARATUS AND IS NOT IN ANY WAY INTENDED TO DESCRIBE THE BUILDING TO ARCHITECTURAL, STRUCTURAL OR OTHER REQUIREMENTS.

CUSTOMER TO PROVIDE FULL CONSTRUCTION DRAWINGS A MINIMUM OF 20 DAYS PRIOR TO COMMENCEMENT OF WORKS. CUSTOMER TO OBTAIN ALL NECESSARY PLANNING AND BUILDING APPROVALS PRIOR TO CONSTRUCTION.

GENERAL:

(a) Prior to commencement of any building work on the substation the builder is required to notify Power On. (b) This drawing should not be scaled and no variations to the stated dimensions or

materials specified will be permitted without prior consent. (c) Contractors are required to fit standard locks & fittings supplied by ENC on all gates

and doors to enable ready access at all times. No obstructions on the route to the substation will be permitted at any time. (d) The running of heating, gas, water and other service pipes through or under the

substation will not be permitted. (e) Power On will not install any equipment until all building work is completed and

approved by the Power On project manager f) In the event of building works (i.e. scaffolding) affecting the permanent plant access arrangements; then the developer is to ligise with the Power On project manager to agree an alternative method of access to ENC specifications at the cost of the developer.

FOUNDATIONS: As stated on drawing or to suit the site conditions.

CONCRETE & REINFORCEMENT: To structural engineers specification to sustain 5000kg. The floor of the substation throughout the entire access route is to be capable of sustaining the load.

FLOOR SLAB: 225mm reinforced concrete slab incorporating a 50mm topping screed with a minimum compressive strength of 50N/mm² after 28days, concrete works finished with a steel float to an accuracy of 2mm over any 2m dimension. The top of the slab is to be finished with a suitable wearing screed so as to provide impact

and abrasion resistance. Reinforcement shall be to SE requirements. Minimum reinforcement cover shall be 40mm. Additional earth mesh to be run within screed. The slab reinforcement mesh must NOT be bonded to the substation earth. The earth straps must be welded to the topping screed's mesh layer.

WALLS: To be 215mm fully bonded brickwork, frogged flettons constructed in English Bond with neat struck joints to provide a fair faced finish internally. Or two skins of brickwork laid stretcher bond with EML horizontal bed joint reinforcement every third course with no cavity. Inner skin to be common flettons and external skin to harmonise with adjacent buildings. Or 180mm min. RC concrete with sufficient concrete cover to reinforcement to achieve 4 hour fire rating.

No modular, cellular or perforated bricks to be used. Blockwork walls are unacceptable without prior discussion with the Power On designer and written approval.

VENTILATION: To provide a minimum of 1.5m² of free air for the transformer. Provided through louvered doors. Ventilation calculations can be seen on this drawing.

DOORS: See provisional details on drawing.

DUCTS: 125mm internal diameter twinned walled rigi ducting to ENATS 12-24. All ducts must be sealed at the time of installation. The use of rags, newspaper etc. to seal the ducts is not acceptable. A sealing plate (puddle flange) should be used where ducts penetrate the switchroom concrete or retaining walls.

CABLE ENTRY: All ducts to be sealed against the ingress of water and gas by the builder using the Roxtec Duct Sealing System - Empty ducts to be sealed to the same specification. All other cable entrances to be sealed using "Promoseal" fire compound or a similar product.

STRUCTURAL STEELWORK: All structural steelwork to be fireproofed to a 4 hour standard by encasing in concrete. Or clad in 4 hour Fire Rated 'Durasteel' by specialist contractor. Any 'Durasteel' construction is to be provided with a letter of conformity from an approved Licensee. Note: No other forms of fireproofing are acceptable.

ROOF OR CEILING.

To be 180mm normal density reinforced concrete or greater to suit the span with sufficient concrete cover to reinforcement to achieve a 4 hour FR. Hollow pot construction, lightweight concrete on profiled metal decking, pre-cast slabs or similar will not be permitted.

Existing slabs can be uprated by cladding in 4 hour Fire Rated 'Durasteel' by specialist contractor providing the minimum headroom can be achieved. Any durasteel construction is to be provided with a letter of conformity from an

approved Licensee. No other forms of fireproofing are acceptable. Reinforced to the developer's structural engineer's requirements.

WATERPROOFING: The whole of the substation room must be impervious to the ingress of water.

PAINTWORK: Ceiling & walls to receive 2 coats of white emulsion paint. Floor to receive 1 coat of grey concrete paint.

LIGHTING: Light switch by door controlling 2No. 58W (min.) IP65 fluorescent tubes within the substation room.

EARTHING: Power on Connections shall install, test and commission a standard earth nest comprising a minimum of 2No. earth rods - in accordance with this drawing.

Earth mesh shall be connected to the earth nest as per this drawing. The earthing materials shall be supplied by Power on Connections and installed by the developer.

Earth rods installed for ENC use within the ground floor should not under any circumstances be used for the lightning protection system.

NOTE: The earth reading required is based on Earthing Report Reference: P-0095762-CAL-001 Rev0. If additional earthing material or builders work is required, including the use of imported materials to improve the resistance to earth (e.g. Bentonite or similar), all costs shall be borne by the developer.







SCALE: 1:150

TYPICAL SMALL POWER AND LIGHTING PARTS LIST: - 1No. 5 WAY CONSUMER UNIT (POLYCARBONATE) INCORPORATING 30mA RCD 100A DISCONNECTOR, 3No. 6A MCBs & 2No. 16A MCBs 2No. 5' FLUORESCENT TUBE LIGHT

IP65 WEATHERPROOF, TEMPERATURE & IMPACT RESISTANT POLYCARBONATE TO BS 1363 & BS EN 60529 PARTS AS FOLLOWS:-

CONSTRUCTION DETAILS

2.

- 1No. 30mA RCD 13A 1 GANG 13A DOUBLE SWITCHED SOCKET FOR POWERING TEST EQUIPMENT (TO BE LOCATED ON RHS OF SUBSTATION)
- INo. 1 GANG 2 WAY 20A SWITCH LOCATED ADJACENT TO PRIMARY OPENING LEAF OF DOUBLE DOORS
- 1No. 1 GANG 13A UNSWITCHED FCU (TO BE LOCATED ON RHS OF SUBSTATION) FOR POWERING RTU
- PLASTIC CONDUIT & CONNECTORS. METAL WORK NOT PERMITTED, EVEN WHEN EARTHED CORRECTLY IN ACCORDANCE WITH THE BS7671 & PART P OF THE **BUILDING REGULATIONS**









How How Hew Schee
VENTILATION CALCULATIONS
Louvred Doors = $5m^2$
ASSUMED EFFICIENCIES: Efficiency louvred panel = 41%
Area of free air ventilation $=$ 2.05m ²

CUSTOMER - PURCHASE ORDER	POC-PO103417-1
	5607030
SALES ORDER	
	103800482
PRODUCTION ORDER	
	Mount Plesant, London
PROJECT	

REV	DESCR	IPTION	INITIALS	DATE
0	FIRST	ISSUE	СК	09.12.2020
	SPEC	FICATION FOR OI	L IMMERSED NATURA	LLY COOLED (KNAN)
		FREE OIL LEVEL	RANSFORMER(S) TO	IEC 60076:2011
Rating		500kVA.		
Phases		Three Phase (Dou	ble Wound).	
Frequenc	sy Hz.	50 Hertz		
HV Wind	ing	11,000 Volts.		
LV Windi	ng	433 Volts. (No Loa	d).	
HV Insula	ation Level	12 kV.		
Powe	er frequency	28 kV. r.m.s.		
Basio	c Impulse Level	95 kV. Peak.		
Impedance	ce - % at 75°C	4.75% (Subject to	IEC Iolerances).	
HV Tappi	ngs	$\pm 2.5\%$ and $\pm 5.0\%$	(CFVV) full power tapp	ings
Tapping S	Selection	Externally operated facility and in addit	d "off circuit" switch. The ion a padlockable	switch handle is provided with a padlock
		anti-vandal cover.	Both switch handle and a defined padlock	anti vandal cover to be suitable for use with
		dimensions (clause	e 5.4.2 of WPD spec app	olies) – note minimum hole size is 8mm
HV/LV Co	onnections	Delta/Star N. pt.		
B.S. Vect	or Symbol	D,yn11		
Tempera	ture Rise °C	Top Oil 60° C;	Windings 65° C	
Type : Or Insulating	utdoor/Indoor J Liquid Type	Unit Substation (I Midel 7131 Transf	IV and LV flanges on s ormer Fluid	ame side of transformer tank.)

Tank Fittings:-

Dehydrating breather

Bolted on tank cover (lipped and designed to shed water)

4 x Lifting lugs (Painted Yellow) to enable reasonable upright lift position for transformer alone or switchgear fitted (safe working load to be above combined weight of transformer and switchgear, proof load to be twice safe load). Transformer with switchgear (700kg HV and 350kG LV) to be able to be lifted on two of the four appropriate positioned lugs.

4 x Jacking Lugs (400mm from ground level for 315kVA, 350mm from ground level for 500kVA and 800kVA, 250mm from ground level for 1000kVA) – minimum dimensions as per ENATS 35-1 issue 5 figure 3 – clear access to engage a jack is required.

Oil level indicator showing nominal oil level at 15°C and with a visible range of -10°C to +80°C

Combined Rating and Connection plate – incorporating requirements of 60076:1 Clause 8 and ECO regulation rating plate requirements (eg Loss level, 'CE' marks etc)

Plain Breather Pipe with ¹/₂" BSP External Thread – typically as figure 2 of ENATS 35-1 issue 5 - with transport cap & label stating removal of cap for service and storage.

Tapping switch label (figure 15 of ENATS 35-1 issue 5)

Base skids drilled for roller axles (42mm holes for axles at each end of base skid) – the fitting of 200mm dia rollers shall not be inhibited by the base extension.

Base skid to provide a stable base suitable for use with sound absorbing pads (sound absorbing pads excluded from supply).

Oil filling hole and cover.

Combined Drain/Sampler valve (25mm outlet with a 1" BSP internal thread) complete with a screwed blanking plug with hexagonal head.

Centre of gravity of the transformer alone (i.e. not including HV & LV Switchgear weights) to be marked on two adjacent tank sides with symbol 7 of BSEN ISO 780

1 x Earthing terminal positioned as per fig 7 of ENATS 35-1 issue 5– bolted hole to be 300mm ±5mm from ground level (stainless steel un painted – lug to be free of paint, corrosion and grease – and protected against corrosion for storage (figure 4 of ENATS 35-1 issue 5)

HV Terminal Identification plate marked 1U 1V 1W (read left to right when facing terminals)

LV Terminal Identification plate marked 2W 2V 2U 2N (read left to right when facing terminals)

External nuts and bolts to be plated / stainless steel (nuts different grade SS to bolts to ensure galling does not occur) to avoid corrosion.

Transformer to be operational when water levels reach 1m above the ground / plinth level.

RMU fixing brackets on tank wall (figure 8 of ENATS 35-1 issue 5)

<u>HV Terminations</u>: - Directly mounted, metalclad, non-extensible Schneider Electric Ringmaster GTC RN2D-M T1/21 TM (TLF Protection). **Part reference R0RN2D**

Cable termination kits and cable lugs are not included. Includes 2 x 5A TLF (RMR-A17/5)

<u>LV Terminations</u>: - Directly mounted Schneider Electric 1600A 5-Way Fuse Cabinet to GTC Specification. Part Reference – **EGTC03R4**.

Transformer Part number – 48852000L

Technical Data:-

	Losses	500kVA
	No Load Loss (W)	510
ECO Loss	Load Loss at ref temp 75°C (W)	5500
	Sound Power ENATS 35-1 Issue	56
	dB(A)	

Remarks:-

All losses detailed are MAXIMUM GUARANTEED (zero positive tolerance)
 Externally painted to meet requirements of ISO 12944-2 C4 High Durability

- Externally painted to meet requirements of ISO 12944-2 C4 High Durability
 Internally painted above minimum oil level and the underside of the tank cover with one coat
- of oil resistance paint or varnish of any medium to light cover.
- To be compliant with ENATS 35-1 Issue 5 and WPD EE Spec 5/5 (except where deviated)
 Limiting Dimensions as figure 6,7, and 8 of ENATS 35-1 Issue 5
- 6) Stability requirements to return to upright position when tilted 20° from the vertical either backwards or forwards. Any stabilising foot used (typical shown in figure 8) to be suitable for sound absorbing pads as may be used under main tank (sound absorbing pads excluded from supply).
- 7) Oil gauge, rating and connection plates, oil drain and sampling valve, and plain breather device shall be on approx the same vertical as the earth lug and tapping switch as per figure 7 of ENATS 35-1 issue 5



SUBSTATION INSTALLATIONS

GTC designs, constructs and maintains its electrical equipment in compliance with the requirements of the Electricity, Safety, Quality and Continuity Regulations 2002. In order to satisfy these requirements and other industry recommendations, GTC's equipment is procured and installed inline with British and European Standards, Electricity Supply Industry (ESI) guidance and technical specifications produced by the Energy Networks Association (ENA).

In urban locations where substations installations are proposed, existing background noise levels of 35 to 40dB(A) are reasonably typical. Notwithstanding this, GTC endeavours not to add the overall background noise level, through the installation of its plant and equipment.

Substation Plant

The primary piece of equipment within a substation that is responsible for the production of sound pressure (noise) is the transformer.

ENA G81 Framework for design and planning, materials specification, installation and record for low voltage housing development installations and associated new HV/LV distribution substations Part 1 (Design and Planning) Amendment 1 and Part 2 (Materials Specification) Amendment 1, dictate's the selection criteria for substations and provides guidance on the appropriate standards to be applied to substation plant.

GTC has chosen Schneider Electric as its preferred supplier for substation plant.

Transformers

In selecting its transformer specifications, GTC looked at best industry practice and selected a challenging specification for its transformers. Currently GTC transformers in keeping with the established Distribution Network Operators (DNO's) uses ENATS 35-1 Issue 5, which states the maximum sound pressure level requirements for distribution transformers ratings up to 1000kVA, calculated in-line with the International standard Determination of Sound Levels Application Guide document, IEC 6076-10-1 205..

> 315kVA ENATS 35-1 Issue 5 states sound pressure level at 0.3m = 54dB(A)Schneider Electric Transformers supplied to GTC have sound pressure level at 0.3m = 47dB(A)

> 500kVA ENATS 35-1 Issue 5 states sound pressure level at 0.3m = 56dB(A)Schneider Electric Transformers supplied to GTC have sound pressure level at 0.3m = 48dB(A)

> 800kVA ENATS 35-1 Issue 5 states sound pressure level at 0.3m = 58dB(A)Schneider Electric Transformers supplied to GTC have sound pressure level at 0.3m = 49dB(A)

> 1000kVA ENATS 35-1 Issue 5 states sound pressure level at 0.3m = 59dB(A)Schneider Electric Transformers supplied to GTC have sound pressure level at 0.3m = 50dB(A)

GTC transformer sound pressure levels are lower then the ENATS 35-1 Issue 5 requirements, due to the level of no load losses specified by GTC and therefore by default, are quieter.



Building Design

In order to further reduce the impact of noise, GTC prefers to install its substation plant into brick buildings which has the effect of reducing sound pressure levels by a approximately 20dB(A).

GTC's current substation design incorporates cavity wall construction with GRP doors in low risk areas such as residential estates and steel doors in higher risk areas. These doors are ventilated to ensure the correct movement of air, and the building design also uses a ventilation panels at the rear of the building to assist with air movement. These arrangements preclude the need for forced ventilation such as fans and thereby further reduce the potential for additional noise.

The location of the substation is also a factor in reducing noise, so where possible they are situated away from residential properties. Where this is not possible, brick built substations will be sited a minimum of 3m from any residential property.

Other Substation Installations

Where and for whatever reason the preferred brick built substation is not constructed, GTC will contain its substation equipment in a purpose built GRP housing. In such instances and in line with industry best practice, this type of substation will be constructed using the following limiting distances from the nearest adjacent properties to the transformer tank.

It should be noted that these limiting distances allow for worst case scenario installations of freestanding substation equipment, with no GRP housing and achieve acceptable attenuation of noise at these distances. Therefore the addition of a GRP housing to contain the substation equipment will further reduce the noise levels.

TRANSFORMER RATING (KVA)	315	500	800	1000
LIMITING DISTANCE (M) Rural Locations	11	14	17	19
LIMITING DISTANCE (M) Urban Locations	7	9	10	12

NB – The transformer tank will be situated between 0.5m and 0.75m inside the GRP housing.

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Date:	12 May 2021	Ref:	E20135 210507 CT F1-C

Project: E20135 Mount Pleasant Phase 2 Phoenix Place, London

Subject: Substation Noise Assessment

Pages: 4

1.0 INTRODUCTION

Adnitt Acoustics have been commissioned by McAleer and Rushe to undertake a noise assessment of the proposed substation at Mount Pleasant Phase 2 and assess the emissions against the requirements of the Local Planning Authority and the Employer's Requirements.

1.1 Local Authority Planning Requirements

The local authority, Camden Council, have provided the following conditions within planning consent 2013/3807/P regarding the substation.

Condition 34

Details of the electrical substations including their acoustic specifications and cladding/facing materials, where relevant, shall be submitted to and approved in writing by the Local Planning Authority prior to the commencement of superstructure works in the relevant Section first occupation of the relevant block.

Condition 45

Noise levels at a point 1 metre external to sensitive facades shall be at least 5dB(A) less than the existing background measurement (LA90), expressed in dB(A) when all plant/equipment (or any part of it) is in operation unless the plant/equipment hereby permitted will have a noise that has a distinguishable, discrete continuous note (whine, hiss, screech, hum) and/or if there are distinct impulses (bangs, clicks, clatters, thumps), then the noise levels from that piece of plant/equipment at any sensitive facade shall be at least 10dB(A) below the LA90, expressed in dB(A).

1.2 Employer's Design Requirements

The Employer's Requirements are detailed in the RIBA Stage 4 - Acoustics report prepared by Cass Allenⁱ. The report provides the following limits for mechanical plant noise within the various spaces of the development.





Substation noise levels (dB, ref: 20 micro-Pascals) Receptor 63Hz 125Hz 250Hz 500Hz 1kHz 2kHz 8kHz 4kHz Adjacent Wellbeing 50 38 30 20 17 25 23 24 Centre Adjacent Residential Unit 47 35 26 19 15 12 9 7 Table 1 - Indoor ambient noise level criteria due to substation

2.0 PREDICTED SUBSTATION NOISE LEVELS WITHIN DEVELOPMENT

2.1 Manufacturers Sound Levels

The measured noise levels from the substation have been provided by the substation providerⁱⁱ used in the predictions are as follows.

Mechanical Plant Item	Sound Power Level (dB, ref: 20 micro-Pascals)							
	63Hz 125Hz 250Hz 500Hz 1kHz 2kHz 4kHz 8kHz							
Substation	59	53	55	53	38	31	28	30
Table 2 - Sound Power Levels from Substation								

2.2 Measured In-Situ Noise Levels

As part of the assessment a measurement of noise level emissions from the same make and model of the substation in a residential environment.

The measurements were undertaken by Chris Turner BSc(Hons) MSc MIOA MInstP in general accordance with the methodology found in British Standard BS 4142:2014+A1:2019 on Wednesday 05 May 2021. The following equipment was used for the measurements.

Description	Manufacturer/Model	Serial Number	Calibration Date	Certificate Number					
Integrating sound level meter	Cirrus Optimus Green CR:171B	G061822	20/03/2020	140518					
Microphone	Cirrus MK224	212796A	20/03/2020	140519					
Acoustic Calibrator	Cirrus CR:515	60704	24/03/2020	140517					
Table 3 - Survey Equipment Schedule									

The measured noise levels at 1m from the louvre, inclusive of the prevailing background sound levels, are presented in the table below. Observations on site showed that the noise from the substation was inaudible at the louvre.

Mechanical Plant Item	Sound Pressure Level (dB, ref: 20 micro-Pascals)							
	63Hz 125Hz 250Hz 500Hz 1kHz 2kHz 4kHz 8kHz							
Substation Louvre	46	44	42	41	41	39	33	26
Table 4 - Sound Power Levels from Substation								





2.3 Separating Constructions

The separating construction between the substation and the apartment above is understood to be as follows:

- Floor finish on 75mm sand/cement screed
- 130mm Ecotherm insulation (or similar approved)
- 250mm concrete slab
- 300mm airgap
- 200mm concrete slab

The separating construction between the substation and the wellbeing centre is understood to be as follows, from substation outwards:

- 250mm concrete wall
- 100mm APR
- 100mm blockwork
- 25mm airgap
- 2x12.5mm wallboard on 60 I Studs

2.4 Predicted Internal Noise Levels

The predicted internal noise levels within the adjacent units are as follows.

Receptor	Substation noise levels (dB, ref: 20 micro-Pascals)							
	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
Adjacent Wellbeing Centre	37	24	21	9	-	-	-	-
Adjacent Residential Unit	31	19	17	3	-	-	-	-
Table 5 - Predicted indoor ambient noise levels due to substation								

The predicted noise levels are below the proposed criteria and, therefore, the noise levels from the substation within the adjacent spaces should comply with the Employer's Design Requirements without any additional mitigation requirements.

2.5 Noise Levels at the Nearest Noise Sensitive Receptor

Based upon the measured in-situ noise levels the predicted noise levels at the nearest noise sensitive receptor from the proposed substation are in the order of 35dB $L_{Aeq,T}$ which is below the criteria outlined in Planning Condition 45 (39dB $L_{Aeq,T}$).

Therefore, the substation is predicted to comply with requirements of the Local Planning Authority.





3.0 CONCLUSIONS

Adnitt Acoustics were commissioned by McAleer and Rushe to undertake a noise assessment of the proposed substation at Mount Pleasant Phase 2 and assess the emissions against the requirements of the Local Planning Authority and the Employers Requirements.

The predicted noise levels within the adjacent residential unit and the adjacent well-being centre should comply with the Employer's Requirements without the need to any additional mitigation measures.

The predicted noise levels at 1m from the nearest noise sensitive façade are predicted to comply with the requirements of the local planning authority.

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ⁱ RIBA Stage 4 - Acoustics Report, prepared by Cass Allen, dated 13 February 2020 (Report Reference: RP04-17506)

ⁱⁱ Schneider Electric Test Certificate Number I227392-01, dated 16 January 2018