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4 December 2019

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Dear Braddan

8 DORSEY STREET, MANCHESTER INTERNAL MUSIC NOISE LEVELS COMMISSIONING VISIT

Further to our site visit on 3 December 2019 to commission music sound limits we comment as follows.

1.0 Site Visit

The site was attended on Tuesday 3 December 2019 to commission internal music noise levels for the ground floor in-house loudspeaker system. The premises were absent of customers during the visit and all doors to the ground floor space were closed.

2.0 Internal Music Noise Level Limits

The internal music noise level limits for the ground floor space are specified within the Clement Acoustics correspondence Ref:9804-170913-L1 dated 13 September 2017.

This specifies the following internal music noise level limits.

Source	Low Frequency Limits		Overall Limit
	63Hz	125Hz	
Amplified Music	79dB	75dB	74dBA

It is understood that the above internal music noise level limits have previously been agreed with the Local Authority.

3.0 Equipment

The following equipment was used to undertake the commissioning visit.

Equipment	Manufacturer	Model	Serial No.	Calibration Date
Class 1 Sound Level Meter	Brüel & Kjær	2250	2626230	18/10/2018
Preamplifier	Brüel & Kjær	ZC-0032	21309	18/10/2018
Microphone	Brüel & Kjær	4189	2621208	18/10/2018
Class 1 Sound Calibrator	Casella	120/1	3864878	15/11/2019

Field calibration checks were performed on the sound level meter prior to and on completion of the survey and were found to be within acceptable tolerance limits.

4.0 Sound System

The sound system comprises the following items of equipment.

- Apple iPad (MP3 Player);
- Pioneer DJM-800 (Mixer);
- Behringer FBQ6200 (31 Band EQ with Limiter);
- Yamaha PC4801N (Amplifier);
- Yamaha PC2001N (Amplifier);
- 8No. Small Satellite Speakers.

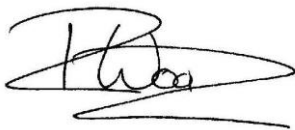
The audio equipment is situated behind the bar in a locked cupboard whilst the small satellite speakers are distributed throughout the ground floor space. The volume control for staff is via the iPad situated behind the bar.

Should any items of the sound system be replaced a repeat commissioning visit will be required.

5.0 Methodology

The volume level on the Apple iPad was set to maximum, the input switch on the Pioneer DJM-800 was set to line input with the fader set to maximum and the volume level on the 2No. Yamaha amplifiers were set to maximum. Typical tracks for the venue were played and the volume limiter/frequency bands on the Behringer FBQ6200 were then adjusted until the internal music noise level limits were achieved. The cupboard was fitted with a padlock to prevent tampering with only the manager having a key.

Yours sincerely
for LIGHTHOUSE ACOUSTICS



Robin Wood