Acoustic Associates
LEICESTERSHIRE

Chris Gunby
Henry Mein Partnership
12 Clarendon Street,
Nottingham. NG1 5HQ

Date 26 March 2015

Our ref LR15020

Dear Mr Gunby

Re RE: 11/00431/FUL 78 Main Street Markfield

The plant installed is to the standard Central England Co-Op specification. The chillers will be 41dBA or less at 10m in the day and 30 dBA at 10m at night. The plant noise barrier will give about 10 dBA attenuation (a 2m acoustic fence close to the chillers, round the plant area) the noise at the receptors is calculated in the table below.

	Day	Night	
condenser at 10m	41	30	dBA
reflection off store wall	3	3	dB
barrier attenuation	-10	-10	dB
	34	23	L_{Aeq} during operation
% on time	50	50	%
time correction	-3	-3	dB
LAeq at receptor	31	20	L_{Aeq} for assessment period
spec	41	37	L_{Aeq} free field at houses
does it meet the spec?	yes	yes	

Clearly the noise levels are well within specification, with at least 10dB in hand so you can be confident that they meet the requirements.

If you have any queries or I can be of any further assistance please do not hesitate to contact me.

Yours sincerely

B N Smith MIOA