MAELOR FOODS LTD - Noise Mitigation Works COMMISSIONING PLAN

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Introduction

Maelor Foods Ltd has successfully secured both the NRW Permit Variation and full planning consent, authorising a strategic production capacity expansion to 2 million birds per week. The permit variation sets out a series of pre-operational conditions and additional regulatory requirements. This includes the installation of noise and odour mitigation measures, as referenced in PO3 on the following table (taken from the NRW Permit Variation). These works are cross-referenced through planning permission P/2022/0820, on which Condition 11 states:

No more than 1,000,000 birds shall be processed each week until noise mitigation measures have been implemented in accordance with a scheme that has first been submitted to and approved in writing by the Local Planning Authority. The measures shall be retained thereafter.

This document serves to discharge the above referenced planning condition.

Table S1.4A Pre-operational measures		
Reference	**Pre-operational measures**	**Status**
PO1	The Operator shall submit a written report to Natural Resources Wales on the implementation of its Environmental Management System prior to commencement of activity AR1 (type S6.8 A1 (b))	Complete
PO2	The operator shall submit to Natural Resources Wales an updated site drainage plan, showing the as built site drainage and containment for all surface water and effluent drainage prior to commencement of activity type AR1 (S6.8 A1 (b))	Complete
PO3	The Operator shall install all noise abatement and mitigation measures proposed within document reference Maelor Foods Ltd. Second Sch 5 RESPONSE Final For Issue Ver 1.3, (dated 29/01/2024) prior to Phase 2 Operations Commencing. Upon completion of the work, a written report shall be submitted to Natural Resources Wales for approval.	
PO4	The operator shall submit for written approval a report by a qualified engineer (or equivalent) confirming that the proposed containment system has been constructed to the standards and descriptions provided in the documents reference: • Response to Schedule 5 dated 15.11.2023 - WWTP bund & site drainage 01122023; • Schedule 5 No2 Appendix 3 – proposed retaining wall plan – Ref 13483-001 – Rev F; • Schedule 5 No2 Appendix 4 – proposed retaining wall plan advising proposed storage Rev D; and • Schedule 5 No2 Appendix 2 - WWTP Phase 2 Layout Plan. The report should reference the CIRIA 736 guidance. The operator shall submit the report to Natural Resources Wales for approval prior to Phase 2 Operations commencing.	Complete
PO5	Prior to the commissioning of Phase 2 Operations, a written commissioning plan (including timelines for completion) shall be submitted to Natural Resources Wales (NRW) for approval. The commissioning plan shall include but not be restricted to: • The timetable for the commissioning all new plant and ramp up of Phase 2 Operations; • The expected emissions to the environment during each of the stages of commissioning; • The mitigation measures that will be taken in respect of emissions to the environment during each stage; • The expected duration of commissioning activities; • Any additional (beyond that required by the Permit) monitoring to be undertaken. Commissioning shall be carried out in accordance with the commissioning plan as approved.	

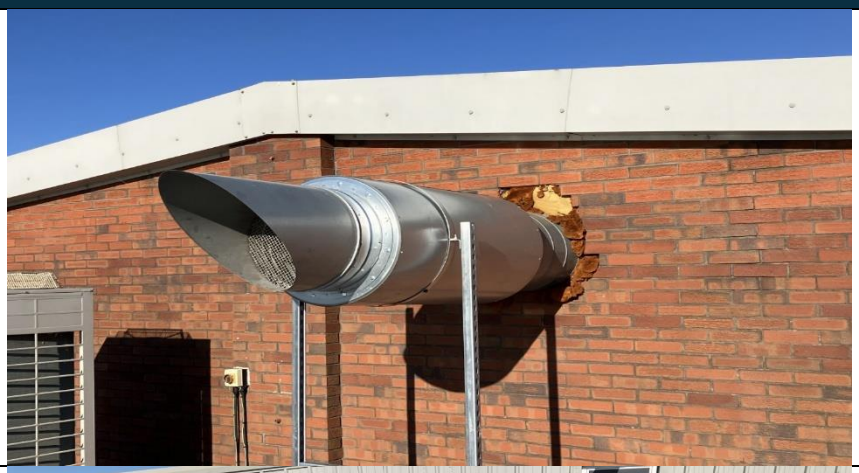
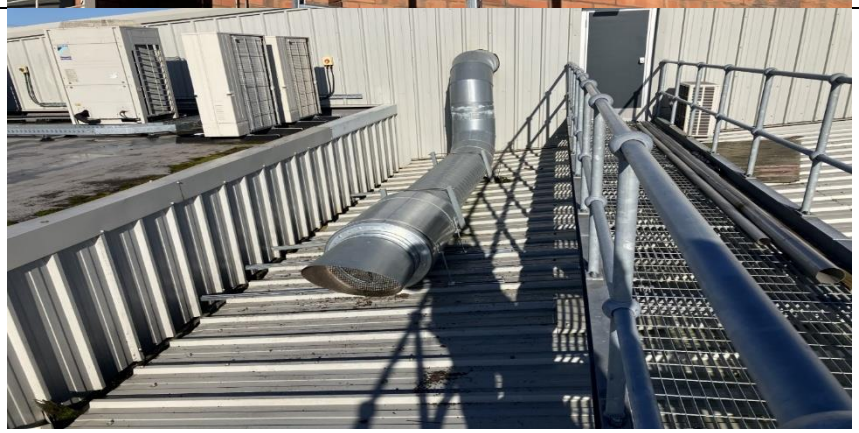
Table: Pre Operational Conditions Listed under V004 Permit

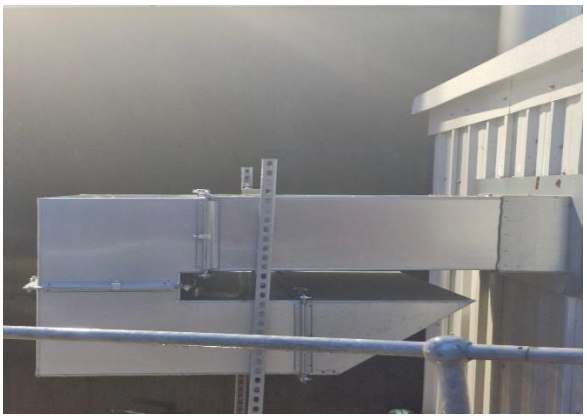
Noise Abatement Plan

It is to be noted that the determination of permit variation V004 set several Pre Operational conditions in relating to noise management on site. This was in relation to **"Maelor Foods Ltd. Second Sch 5 RESPONSE Final For Issue Ver 1.3, (dated 29/01/2024)".**

In accordance with NRW Permit Variation V004, Maelor Foods Ltd has successfully completed five of the seven required actions. The outcomes of the completed tasks are summarised in Table 3. The two remaining actions relate to the installation of acoustic fencing along the site boundary, which is scheduled for completion by **19th December 2025,** and the additional acoustic cladding and shielding for the cooling plant (Ammonia Plant), which is scheduled for completion by **30th January 2026**. A written report will be submitted to NRW on completion of the works to close out PO3 of the Permit.

Onsite Noise surveys taken during the Noise Abatement activities are already showing a considerable improvement to expectations. The plan is to carry out a noise survey once all works have been concluded, carried out by an external provider which will be used as an interim benchmark.

S.No	Installed Attenuators	Noise Reduced
1 - Roof Space Ventilation Fan		Noise reduced from 83.4dBA to 58.6dBA.
2 - Roof Space Exhaust		Noise reduced from 70dBA to 55.6dBA.

3 - Lairage Cooling Unit		Noise reduced from 82.8dBA to 62.3 dBA
4 - Offal bay extractor fan		Noise Reduced from 80dBA to 67.3dBA
5 - WWTP Aerzen Blowers		23dBA drop at close distance and 31dBA drop at 2 m away from the structure.

6 – Cooling Plant Extract Fan Attenuation		Cooling plant extract fan is fitted with a double attenuation and direction of the outlet changed to face away from the fence. This has resulted in Noise reduction from 71.7dBa to 56dBa, Unit will further be covered with Acoustic cladding/Shielding – Projected expected to be completed by 30th January 2026.

7- Acoustic Fencing/ Screening	 	The site boundary has been equipped with two types of acoustic fencing to optimise noise attenuation across different areas. The front section of the site is fitted with JBP Ultrasound Acoustic Reduction Barriers, providing a sound absorption capability of 16 dB. The rear section is fitted with Heras Noise Reducer HA barriers, which offer highly effective sound insulation with an absorption capacity of up to 11 dB.

Table: Completed Noise Mitigation Projects

The table below lists of all the requirements listed in schedule 5 response submitted during permit variation consultation. Outstanding actions highlighted in yellow.

It is to be noted that Maelor Foods Ltd plans on addressing all the Noise mitigation measures before commencing the increased operation.

Mitigation Measure	Description	Site Status
Cooling System Exhausts	Acoustic cladding/shielding of chiller plant. Option to install acoustic silencing to existing fans to be evaluated.	**Project- Ongoing, expected to be completed by 30th January 2026.**
Exhaust Louvres	Horizontal outlets from the production plant shall be subject to terminal attenuation using splitter-type attenuators. These shall be installed behind each louvre/grille and shall be fully sealed. The size of the attenuators shall be selected to reduce the breakout noise to ambient minimum off-site. Splitters and side linings shall contain sound-absorbent infill encapsulated with glass cloth and plain perforated steel. Splitters shall feature aerodynamic profiled fairings at each end.	All Exhaust units with Noise performance above 70dBA was identified and Attenuators installed to reduce the noise emission. – **Complete**
HVAC Units	All HVAC plant that is installed within the plant deck within the building that is subject to either extract or supply air from the roof shall be installed with a splitter type attenuator, all as shown in red on data sheet. The installation of attenuators is designed to mitigate fan-noise breakout. Splitters and side linings shall contain sound absorbent infill that is encapsulated with glass cloth and plain perforated steel. Splitters shall be a profiled at each end. The external panelling that surrounds the cooling tower units shall be increased in height so that the attenuators are not visitable from curb side. The panelling shall be sound absorbent.	All Exhaust units with Noise performance above 70dBA was identified and Attenuators installed to reduce the noise emission. - **Complete**
Acoustic Screening – Installation Boundary	JBP Ultrasound acoustic reduction barriers are to be installed on the perimeter of the Maelor Foods Ltd site. These barriers shall be of stone wool Construction complete with PE netting and wood panelling. External colour shall be as approved via the local planning authority.	**Project – Ongoing, expected to be completed by 19th December 2025.**
Aeration Blowers & Pumps – Effluent Treatment Plant	Existing and new effluent treatment pumps and blowers will be enclosed in suitably vented bespoke acoustically attenuated enclosures constructed from materials including galvanised steel, aluminium, and featuring mineral wool sound-absorbent media.	A complete attenuation setup installed and commissioned. 23dBA drop observed at close distance while 31dBA drop observed at 2m Distance. – **Complete**
Scrubber Unit	JBP Ultrasound reduction panels/barriers be installed around the existing scrubber unit to attenuate fan/motor noise. These panels/ barriers shall be of stone wool construction complete with PE netting and wood panelling.	Scrubber – pump room already equipped with room and noise panels around it. As per noise management plan – scrubber is timed to work at 50% efficiency after production hours to

		reduce noise range. – **Complete**
HGVs (to be finalised)	Review of Maelor-owned vehicles to ensure BAT are implemented in regard to refrigeration trailer units	As per noise management plan, Trailer electric hookup points are commissioned and trained to drivers. Trailers on site stay in electric mode to reduce noise emission. **– Complete**

Table: Noise Mitigation Measures

S. No	Project List	Status
1	Ammonia Plant Acoustic cladding/Shielding	Ongoing – Project expected to be completed by **30th January 2026.**
2	Site Acoustic Fencing	Ongoing – Project expected to be completed by **19th December 2025**.

Table: Project Schedule