

Appendix 4 - Demonstration of BAT

Source Reference	Source	Are Abatement and Actions Taken to Prevent or Minimise Emissions BAT?	Actions to be Taken to Meet BAT and Timescales
NS 1	Animal Unloading & Holding (Lairage)	Animals are often retained for a couple of hours before slaughtering, but some may be kept overnight to facilitate an early morning start. Dunbia endeavour to complete lairage activities during day-time and evening periods. Animals are held inside a building with offset wooden cladding which allows airflow and provides shade to the livestock while acting as a sound barrier. When lairage activities are required to be completed during night-time periods lairage staff are aware of need to minimise noise emissions as much as possible by keeping whistling and shouting to a minimum, and unloading the animals in a calm manner.	None Required.
NS 2	Delivery Area for Packaging/Stores Area	Only carried out during day and evening periods. Drivers aware of need to keep noise generation to a minimum and drive vehicles accordingly. All forklifts, shunters and telehandlers are serviced and loose or noisy parts are repaired when required.	None Required.
NS 3	Despatch Bay Area	Only carried out during day and evening periods. Drivers aware of need to keep noise generation to a minimum and drive vehicles accordingly. Electric sockets are provided for any refrigerated containers parked in these areas and a specific procedure for refrigerated container management LLA-ENV30 to provide a quieter alternative to the diesel engine.	None Required.
NS 4	Loading Bay Area	Only carried out during day and evening periods. Drivers aware of need to keep noise generation to a minimum and drive vehicles accordingly. Electric sockets are provided for any containers parked in these areas and a specific procedure for refrigerated container management LLA-ENV30 to provide a quieter alternative to the diesel engine.	None Required.
NS 5	Boiler	Access door is always kept closed, and regular maintenance is in place to ensure the machines are running smoothly. Pressure relief valve only needed in emergency situations.	No additional action required, although to improve could investigate feasibility/effectiveness of acoustic absorbent material on plant room walls.
NS 6	Water Cooled Condenser	Bearings checked on a regular basis and greased when required.	None Required.
NS 7	Refrigeration Plant	Enclosed within a building with access doors that are always kept closed, bearings greased when required.	No additional action required, although to improve could investigate feasibility/effectiveness of acoustic absorbent material on plant room walls.
NS 8	Skip/Trailer/Dolav Movement(Loading/unloading)	External contractor collections only carried out during the day. Internal staff moving dolavs and containers in the evening are aware of the need to keep noise generation to a minimum and drive vehicles accordingly. The beepers on the forklifts have had the volume lowered as much as is possible. All forklifts, shunters and telehandlers are serviced and loose or noisy parts are repaired when required.	None Required.

NS 9	Lorrywash	High pressure hoses are in place, so reducing the length of time the lorrywash is in use. This is also a low risk noise source.	None Required.
NS10	Refrigerated Containers	Transport Operatives are aware of need to keep noise generation to a minimum and store containers in designated areas. Engines will only run during operational hours, after which electrical hookup only will be used to power the refrigerated containers.	None Required.
NS11	Crate Wash	Only in use during the day time, and is a low risk noise source, and it is fully enclosed within a building.	None Required.
NS12	Blood Tank Pump	Only operated during daytime. Is located inside the building.	None Required.
NS13	Vacuum Packer Pumps	Is located within a blockwork building structure.	None Required.
NS14	Extractor Fans	Low risk noise source, checked annually as part of PMS. Noise attenuation is installed on both CAP/CPM fans and an inverter and insulation is installed on the AHU (Swann Neck Fan) duct work.	None Required.
NS15	Screw Press	It is fully enclosed within the ETP and is a low rpm and so low noise machine.	None Required.
NS16	DAF Unit Pumps	Weekly visual inspection, moving parts and bearings greased when required and is part of PMS. They are fully enclosed within the ETP building.	None Required.
NS17	Blowers for Aeration Tank	The blowers are self contained units on rubber feet to absorb noise and vibration. The units are then fully enclosed within an insulated plant room, within the ETP. There is also an acoustic absorbent material surrounding the pipe connected to the blowers and a baffle installed at the air inlet.	None Required.
NS19	Rotary Screens (Bellygrass Press, Drum Screen, Archimedes Screw)	Weekly visual inspection, moving parts and bearings greased when required and is part of PMS. Low rpm and so low noise machines.	None Required.
NS21	Air Compressor Room	Weekly visual inspection, moving parts and bearings greased when required and is part of PMS. VSD driven and so runs at low rpm when there is low demand.	None Required.
NS22	Office Air Conditioning	Bearings checked on a regular basis and greased when required.	None Required.
NS23	Tank Mixer	Bearings checked on a regular basis and greased when required.	None Required.
NS24	Sprinkler Pump	Operational during production hours.	None Required.