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1 Introduction

1.1 Document Scope

This document provides information in support of the Environmental Permit Variation application for a Boundary extension of the Janan Meat Ltd installation, "The Abattoir", located in Kingswinford. This document is intended to be added to the Initial Installation Information Document presented prior to the application for The Installations Environmental Permit. The National Grid reference for the centre of the area covered by the extension boundary is SO89029023 (E389022, N290238).

The Following details were provided at the time of the previous application and remain unchanged.

Company Name	Janan Meat Ltd
Company Registration No	02706152
Main Site Name	The Abattoir
Main Site Address	The Abattoir, Oak Lane, Kingswinford, West Midlands, DY6 7JS

These details cover the premises located within the proposed extension of the boundary

Extension Site Name	Suffolk House
Extension Site Address	Suffolk House, Ham Lane, Kingswinford, West Midlands, DY6 7JU

1.2 Background

The new site is located within the same industrial estate to the ESE of the original site. The facility is an existing factory unit converted to operate initially as a Retail Production and packing line and now into a de-boning facility. Due to an increased demand for Janan Meat boxed de-boned products, this facility provides more capacity than the original de-boning facility which will allow for increased output of boxed de-boned goods. The Slaughter operation will remain unchanged within the original site boundary. Effluent from the additional premises, in the form of washdown residue, will also be discharged to sewer under the original consent from Severn Trent Water.

1.3 Permitting Requirements


The Facility is required to be permitted in order to comply with the Environmental Permitting (England & Wales) Regulations SI2010/675, as amended by The Environmental Permitting (England & Wales) (Amendment) Regulations 2013. The relevant section of the Regulations to describe the processes and the additional premises are:-

De-boning Activity:

Part A(1)(d) – treatment and processing, other than exclusively packaging, of the following raw materials, whether previously processed or unprocessed, intended for the production of food or feed (where the weight of the finished product excludes packaging)-

- (i) Only animal raw materials (other than milk only) with a finished product production capacity of greater than 75 tonnes per day.

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The Slaughter activity:

Part A(1)(b) – Slaughtering animals at the plant with a carcase production capacity of more than 50 tonnes per day.

Will remain unchanged within the Original site boundary.

1.4 Sector Guidance

The activities across both sites will remain unchanged as for the original application and the relevant sector guidance documents and their relevant BAT requirements referred to in P123-R01-F1 Installation Information, will continue to be applied following this variation application.

1.5 Application Structure

1.5.1 Application Documents

This Application Comprises of a number of Documents. This Installation Information Addendum should be read in conjunction with the following documents.


- Application Forms
- P123-R01-F1 Installation information - Original
- P123-R07-F1 – NonTechnical Summary - Original
- P123-R02-F1 – H1 Assessment – Original
- JML-PV-03 SCR Suffolk House
- EM 01-002 EMS Summary 2020
- JML-PV-EM 09- 001 Proposed Boundary Extension Suffolk House 2020
- JML-PV-EM 09- 003 Original Boundary Showing Extension 2020
- EM 01-007 Odour Management Plan
- WYG Janan Meat 13feb18 + Appendices (005)
- JML-PV-01-020 NMP Janan Suffolk House
- EM 01-006 Fugitive Emissions Monitoring Programme 2020
- EM 01-004 Environmental Accident Management Plan 2020

1.5.2 Report Format

This document is structured as follows

- Introduction
- Process Description
- Emissions and Monitoring
- Raw Materials
- Wastes and Animal By products
- Fugitive Emissions

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1.5.3 Diagrams and Plans

Report references P123-R06-F1 contains drawings and plans of the original installation and plans of the installation highlighting the existing and the original installation boundary, the site layout, sensitive receptors, site drainage plan and atmospheric release points

Report references JML contains drawings and plans of the additional premises installation and plans of the installation highlighting the existing and the new and original installation boundary, the site layout, sensitive receptors, site drainage plan and atmospheric release points

2 Process Description

2.1 Introduction

The Additional facility takes in sheep and lamb carcasses from the main site where they are then cut into portions prior to selection, de-boning and packaging, then onto dispatch.

This facility can operate up to 24hrs per day, 7 days per week, 52 weeks per year, however the main pattern of working is 6am until 4pm Monday to Friday, the site will operate at weekends when and if required. All internal and external process related areas on site are equipped with an impervious surface with sealed construction joints, and connected to a sealed drainage system. The basic process steps involved in this manufacturing process are outlined in more detail below.

2.2 Basic Process Steps

The basic process steps are as follows;


- Receipt of carcasses from Slaughter site
- Deboning of carcasses
- Cutting carcasses into portions
- Selection and packaging of portions
- Dispatch of finished products
- Waste and animal by product dispatch

The basic process steps are described in more detail below in a flow diagram contained in section 2.3

Ancillary to the main process at the additional premises are number of linked processes.

- 2x Gas boilers for the hot water supply
- Refrigeration facilities
- Tray washing facilities
- Short term animal by product storage (by products are moved daily to the main site for disposal)

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2.3 Process Flow Diagram

Receive carcasses



Inspection



Cutting, Butchery



Pack & weigh



Chill



Despatch

2.4 Cutting and De-boning Process

The carcasses that are not sent for immediate dispatch are refrigerated at the original site and then transported to the additional site for further processing. It is a requirement of legislation that the carcasses are below 7°C before cutting takes place.

Carcasses are cut and or minced to meet customer specification prior to being packaged ready for dispatch.

Any fat collected from deboning and cutting is packaged for sale as edible fat wherever possible, or as an alternative, removed to the main site and disposed of as indicated in doc P123-R01-F1.

The cutting process remains the same as previously and therefore still meets BAT requirements by ensuring maximum yield from carcasses.


2.5 Ancillary Processes & Equipment

2.5.1 Tray Wash Facility

The site continues to minimise packaging waste by the use of plastic trays for the transport of products wherever possible. For hygiene reasons these trays must be cleaned before re-use. This is done in a dedicated tray wash area which has been relocated to the additional premises.

The tray wash facility remains the same as described in doc P123-R01-F1 and is unchanged other than relocated.

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BAT Continues to be met by:-

- The tray wash on site prevents trays being taken off site for cleaning. The reusable trays in particular minimises having to use disposable packaging materials for products.
- Efficiency measures within the tray wash system comprises of a water sump which allows the recycling of hot water to minimise energy usage, water use and effluent production.

2.5.2 Washing & Cleaning

The cleaning regime on site remains the same as contained in doc P123-R01-F1 and is led by HACCP requirements and kept under constant review

2.5.3 refrigeration system

The additional site has a number of R404 refrigeration systems dedicated to specific areas of the site as shown in the table below.

Details of Refrigeration Systems		
System	Refrigeration gas	Volume
Pack 2	R407F	86kg
Pack 3	R407F	128kg
Freezer	R407F	38kg

2.5.3.1 Maintenance and Inspection

Maintenance of refrigeration equipment will continue to be undertaken under contract as described in doc P123-R01-F1.


2.5.3.2 Records and Review

Maintenance and repair work and Gas top up will continue to be logged with all records held on site as per doc P123-R01-F1.

2.5.3.3 Refrigerant Losses

There will be no storage of refrigerants on site other in the active fridge plant. Records of maintenance activities will be kept and utilised as per doc P123-R01-F1.

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2.5.4 Boilers

Heat for production of hot water is generated by 2X gas fired boilers at the additional premises, Suffolk House. Table 2.3 contains the list of boilers, their size, fuel, location

Location	Rating	Fuel	Area Supplied	On Stream	Comments
B1-Suffolk House	2X 57.9 Kw Gas boilers	Natural Gas	Whole Site	Duty	---

The Boilers feeding the original Site remain Unchanged.

The following routine and records all represent BAT

- A maintenance program and regular servicing is undertaken on the boilers including comprehensive annual insurance inspections.
- Low Nox burners on each boiler.

2.5.5 Compressors and Pumps

The Suffolk House utilises compressors on the refrigeration plant and to provide compressed air to the site in the same way as the original site. The maintenance regime remains the same as per doc P123-R01-F1

2.5.6 Transformers and Switch Gear

There is a transformer in the Suffolk House Site which is managed and Maintained by Western Power

2.5.7 Extraction and Ventilation Systems


These are not required at Suffolk House

2.5.8 Vehicle Washdown

All vehicle washdown operations are carried out at the original site and are not required at Suffolk House

2.5.9 Site engineers are responsible for undertaking the maintenance activities on site. They are carried out as per doc P123-R01-F1

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3 Emissions and Monitoring

3.1 Introduction

This section of the report identifies emissions from site and details the monitoring methods to be implemented.

3.2 Emissions to Air

3.2.1 Point Source Emissions

Table 3.1 below provides information on the point source emissions to air. The table identifies the nature of each release and also includes a location reference for those emission points assessed within the H1 assessment. The plan reference refers to the release points marked on the Emission release point drawing in doc JML-PV-03-001-Drain Plan & Emission Points Suffolk House.

Emission point Reference	Source	Nature of Release	Fuel Type
B1	Gas Boilers	Combustion Gases	Natural Gas

3.2.2 Control of Releases

The combustion equipment is assessed on an annual basis to ensure optimal combustion performance and is routinely maintained and serviced in accordance with the manufacturer's recommendations. The Original H1 assessment (P123-R02-F1) and the Suffolk House Addendum H1 assessment (JML-PV-03 SCR Suffolk House

Has demonstrated that no further monitoring requirements are deemed necessary.

3.3 Fugitive Releases to Air

Fugitive releases to air for the original site are minimal and are expected to be even less so from Suffolk House. Doc P123-R02-F1 (H1 Assessment) and EAMP (EM-01-004) deal with fugitive releases for the original site as referred to in sec 1.5.1 of this report. The environmental Management System implemented for the original site will also cover the Suffolk house site and will continue to include routine and documented inspections to ensure that fugitive releases are identified and rectified accordingly.

3.4 Point Source Releases to Water


3.4.1 Surface water Discharges

There are no surface water discharges from either site.

3.4.2 Foul water Discharges

Discharges from offices and staff Hygiene facilities remain unchanged for the original Site. Suffolk Houses combine foul and effluent stream is discharged to a combined sewer in the same way. With the discharge point on the southern boundary of the premises within the proposed Boundary extension. Discharge is then directed to the Severn Trent Water Treatment Works as is the discharge from the original site.

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3.4.3 Trade Effluent Discharges

Suffolk House has impermeable sealed floors within the production areas fitted with 6mm mesh grates and catch pots. These act to keep solids from entering the drainage system in the same way as the original site and are line with BAT requirements for food production facilities. The effluent is then discharged in the effluent drainage system.

Process effluent is generated from the following areas at Suffolk House.

- Process Rooms
- Traywash

Effluent from the process areas and traywash are largely produced from the washdown process and are discharged via a catchment pit to a combined sewer in compliance with a STW discharge consent (Copy provided in Severn Trent Discharge Agreement The composition of the effluent is assessed by STW analysis of samples from a dedicated sample point on the boundary of the premises. The drainage plane for Suffolk House provides the location of the sample point and effluent discharge point.

3.4.4 Summary of Water Discharges

Table 3.2 below details the various discharge points labelled on the drainage plane for Suffolk House JML-PV-03-001-Drain Plan & Emission Points Suffolk House

Table 3.2 Water Discharges			
Reference	Location as marked on map	Description of discharge	Inspection and monitoring
E1	Southern Boundary of Suffolk House	Combined foul and Process Effluents	STW analysis of samples from sample point.

3.5 Fugitive Releases to Land and Water

The Suffolk House area of the installation will be incorporated into the Infrastructure Monitoring Program already in place and will incorporate the items listed below


- Impermeable Surfaces
- Drainage System

Deficiencies will be dealt with in the same manner as the original site using the incident and corrective action structure and if needed repairs instigated.

3.6 Emission Controls

Emissions will be controlled as per the EMS already in place .

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4. Raw Materials

4.1 Introduction

This section of the Addendum details the principal and ancillary raw materials used in the processes. The raw materials across the original site and Suffolk House remain unchanged and the material schedule for the facility has been provided in Doc P123-R01-F1.

4.2 Principal Raw Materials

4.2.1 Live Stock

Remains unchanged

4.2.2 Water

Remains unchanged, however there are no rainwater harvesting facilities at Suffolk House.

4.2.3 Energy

Types of energy consumption remain unchanged. A copy of 2019 Energy Usage Report is provided with this report. (JML-PV-02-010 Energy Reporting Form 2019)

4.2.3.1 Specific Energy Consumption

See 4.2.3

4.2.3.2 Energy Efficiency Measures

Energy efficiency measures detailed in P123-R01-F1 remain the same with the addition of T1 light fittings now being replaced by LED fittings when they reach the end of their life.

4.2.3.3 Monitoring and Targets

The Climate Change Levy Discount Scheme (CCLDS) referred to in P123-R01-F1, sec 4.2.3.3 is still in effect (Site identifier T00114).

4.3 Ancillary Raw Materials

Ancillary raw materials remain unchanged as detailed in table 4.6, doc P123-R01-F1

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5 Waste and Animal By-products

Wastes and Animal By-product handling and storage remains unchanged, all by-products are stored at the Original Site until they are removed by licenced contractors. No by-product waste will be stored at Suffolk House.

6. Fugitive Emissions

6.1 Introduction

The fugitive emissions for the original site remain unchanged. The following sections discuss source and control techniques for noise, dust and odour emissions for Suffolk House only.

6.2 Noise

There are a number of noise sources at Suffolk house which have potential to cause nuisance due to the closeness of the nearby receptors. The majority of process operations occur within enclosed buildings, which restricts the possibility of noise transmission, however there are some sources outside the buildings which may cause a problem.

6.2.1 Noise Sources

The table below provides detail as to the noise sources at Suffolk House and the control techniques employed.

Table 6.1 Suffolk House Noise Sources					
Source	Nature of Source	Hours of Operation	Nature of Noise	Contribution to site	Noise Control Techniques
Despatch/ Delivery of Goods	Heavy Goods Vehicles	During all Hours of Process operations	Intermittent vehicle motor/fridge motor noise, reversing alarm	High	Noise management plan in place, Despatch yard closed to traffic after 8pm daily until 7am the next day. All contractor vehicles told to turn off motors whilst on site.
Site Vehicles (forklifts etc)	Vehicle engines, Reverse alarms	During all Hours of Process operations	Intermittent vehicle motor/fridge motor noise, reversing alarm	High	Noise management plan in place, Despatch yard closed to traffic after 8pm daily until 7am the next day. Reg maintenance PPM

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Table 6.1 Suffolk House Noise Sources cont

					Reverse alarms changed to white noise alarms
Refrigeration systems	Compressors Motors and fans	24 hours	Constant motor/fan noise	Low	Equipment positioned on far side of building from receptors. Insulating materials used to diffuse sound. Subject to PPM
Air Compressors	Motors and fans	During all Hours of Process operations	Constant motor/fan noise	Medium	Compressors only used during production hours. Main compressor at far side of building from receptors. Vacuum pump compressor housed in insulating material.
Tray wash	Pumps and conveyors	Intermittent during all Hours of Process operations	Constant motor/pump noise	Low	Enclosed within building and at far side to receptors Subject to PPM
Boilers	Pumps	24 hours	Constant motor/pump noise	Low	Enclosed within building and at far side to receptors Subject to PPM
Pressure Washers	Pumps/fans	Intermittent during all Hours of cleaning operations	Intermittent noise from the cleaning process	Low	Enclosed within building Subject to PPM

Definitions

- High** Noise detectable and distinguishable from background, with significant possibility to cause nuisance
- Medium** Noise detectable and distinguishable from background, but not expected to cause nuisance
- Low** Noise likely to be undetectable and undistinguishable from general background

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6.2.2 Environmental Noise Surveys

Owing to the close proximity of nearby receptors an Environmental Noise Survey was undertaken which is provided with this report (WYG Janan Meat 13feb18 + Appendices (005)). The findings show noise levels at all sensitive receptors fall below the Lowest Observed Adverse Effect Level and are considered to have a low impact.

6.2.3 Noise Control Techniques

As described above, Suffolk Houses principal noise reduction techniques are that the majority of processing takes place within enclosed buildings. However, there are a number of noise sources which are external at Suffolk House and for these a Noise Management plan has been put in place. This has been provided with this report (JML-PV-01-020 NMP Janan Suffolk House).

6.3 Vibration

There is no change in vibration across either site from doc P123-R01-F1.

6.4 Dust

There is no change in dust across either site from doc P123-R01-F1.

6.5 Odour

There is no change in odour at the original site from doc P123-R01-F1. Suffolk House has none of the sources of odour which the original site has, and therefore a very low potential for odour releases. Suffolk House has therefore been added to the Original Sites OMP and will be monitored in the same way as the original site. The original odour management plan has been provided with this report (EM 01-007 Odour Management Plan

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