**Application supporting documentation**

**Part A – About you**

**5c please give details of the Directors**

Document **DIR 2021** gives a list of company directors and has been submitted as a separate electronic file.

**Form B2.**

1. **About the Permit**

**1a. Discussions about the permit**

Discussion with Maqawe Mthethwa and Mark Barry about the application process and details of previous applications and expectations - emails and telephone conversations during week commencing 1st June 2021 confirming expectations, forms to be used and the deadline of the end of June for application forms A, B2, B3 and F1 – letter ref EA/EPR/JP3100MM/A001. An email chain ref. **B201** has also been provided in the electronic files provided with the application

**3d. Management Systems**

Aunt Bessie’s Environmental Management Summary

Aunt Bessie’s has an Environment Management System which it is audited against twice a year by the BSI Group to sustain our accreditation to the ISO14001:2015 Standard. This document is a summary of that EMS.

|  |  |
| --- | --- |
| **Content** | **Summary** |
| What to put in the Environmental Management Plan | The EMS was constructed around an original Environmental Aspects and Impacts register exercise that was completed during our time with the William Jackson Food Group – prior to our purchase by Nomad Foods Group in 2019.  The Aspect & Impact register detailed all Environmental issues that could occur on site and that we have control over and were documented along with the controls we have in place.  A separate exercise called a Materiality Matrix was also completed which was a top line management discussion on which Environmental issues are the most important to us as a site/business and then a score given based on the importance. The exercise was then completed again with the same list of issues but scored from the viewpoint of our stakeholders. The scores were then totalled, and the highest value issues were targeted first.  Both of these documents are reviewed annually. |
| How the EMS was Developed | Our site EMS was developed based on the outcome of the exercises detailed above and from any Environmental aspects that our processes on site could affect. The EMS is owned by the SHE manager but relies on input from all departments within the business. The EMS is certified against the latest ISO14001:2015 standard and is audited twice a year by BSI Assurance, an external auditing company specialising in audits of the EMS systems |
| Site Infrastructure | The site infrastructure is shown in several plans of the site which include a detailed site plan covering all electrical and gas metering points as well as substations. There is also a plan covering drainage on the site (DRNP01) |
| Site Operations | Production of Ready to bake and pre-baked Yorkshire Puddings, Pancakes, Stuffing Balls, Dumplings, Meat pies, Fruit pies.  Storage and handling of raw materials, ingredients and cleaning materials received in various containers, including refrigerated storage.  Storage and handling of waste materials arising from processing activities according to category, including preparation for disposal or recovery.  Operation of site abatement systems for the control of release to air and sewer.  Cleaning of process equipment according to hygiene requirements, using proprietary chemical cleaning systems.  Operation of site systems for the supply of utilities and services such as electricity, gas, steam, compressed air, refrigeration and hot water. |
| Site and Equipment Maintenance plan | All machinery and equipment on site are maintained using an internal Planned preventative maintenance system which is held by the engineering department.  Annual inspections and maintenance activities that are required by companies installation engineers are scheduled by the Engineering Department on a timed basis |
| Contingency plans | Contingency plans are set out in document CPP. This document is reviewed by the Senior Management team on site and covers items such as: Fire, flood/adverse weather conditions, Fire or Major Incident, Industrial Action, IT system Failure, Train Derailment (we have a railway line running adjacent to the factories), Major incident at a neighbouring premises, Significant Utilities Failure, Cyber Security Breach, Contamination, Adverse Media or PR, Legal problems amongst other issues. Risks are prioritised and discussed during the reviews. |
| Accident Prevention and Management Plan | The Accident Prevention and Management plan is discussed in the same Contingency document referenced above in document CPP |
| The Changing Climate | We are signed up to a climate change agreement and we use an external company to calculate our usages and reports for us. We are in consultation with this consultant throughout the year to maintain the best possible practices and to review data submissions.  We also are part of the ESOS scheme as well as annual reporting of our sustainability status at site through a companywide, online reporting portal to which we receive an annual report based on the data submitted |
| Complaints Procedure | We have a dedicated email and phoneline for customer complaints and each complaint is directed from there to the relevant department.  The Safety, Health and Environment department have its own environmental complaints log which would log any complaints that are raised and the actions around the complaint logged and recorded. All complaints would be discussed at a monthly SHE meeting held with the senior management team |
| Managing Staff Competence and Training Records | All roles are detailed in the roles and responsibilities document within the EMS. This document references all roles from the Factory General Manager right down to the factory operators. These are reviewed and updated annually and given to relevant persons to understand their roles and responsibilities around Environmental activities on site. These are also displayed on communication boards situated all around the site as well as notice boards etc.  All activities carried out on site are trained out to a company STOP procedure (Standard Operating Procedure) and all training records are kept on file within the training department – this includes any activities that could have an environmental impact. |
| Keeping Records | All records are kept with relevant departments, for example: Safety, Health & Environment records are kept with the SHE department, Maintenance and repair documents are kept with the Engineering team, Quality and food safety documents are kept with the Technical team and training records kept with the training department. Records are also kept archived off-site at a secured location where necessary |
| Management System Review | The EMS system is reviewed twice a year during our BSI ISO14001:2015 audits. We also review the EMS on an annual basis.  Any changes made to the EMS are documented and records kept for future reference |
| Site Closure | No site closure has been required so there is no documentation around this. |
| Making People Understand What We Do | Regular updates around the EMS system and what is expected of people are communicated through the use of communication screens, briefings and toolbox talks. Persons who need to be aware of specific sections of the EMS are made aware of their responsibilities through the roles and responsibilities document mentioned above.  Any external communications are made where necessary and an internal and external communication log is kept up to date by the SHE department on site |

**5. Supporting information**

**5a. site plans**

**B202** in the electronic files is a copy of the installation and site lay out plans.

**5b. provide the relevant sections of a site condition / baseline report if this applies**

Two site condition reports have been attached from the initial application and the development of the turbine area– no change to site condition since these reports. There have been no incidents or accidents that would impact upon the condition of the site and an SPMP has been in place since the initial permit was granted and annual submissions have been made to the Environment Agency. The reports are in the electronic files reference **B203** and **B204**.

**5c Non-technical summary**

The installation produces various frozen food products over two adjacent buildings, known as zone 1 and zone 2. The sites share certain plant and services, such as water, gas, electricity and refrigeration. The principal plant employed in processing the raw materials comprises ovens and freezers. Raw materials are stored in accordance with their characteristics and techniques include bulk storage for edible oils and liquid egg, silos for flour and both refrigerated and ambient storage for meat, sausages, pre processed fruits, bread crumb and margarine.

Proceduralised cleaning systems are in place in accordance with food hygiene requirement utilising proprietary cleaning chemicals.

Refrigeration capacity is provided for the freezers by three compression systems with ammonia refrigerant.

There is a consented discharge to sewer from the process with primary effluent treatment in the form of gravity settlement in place prior to monitored discharge. There are no releases to controlled water.

There is limited potential for releases of pollutants to air and whilst there is a potential for odour from the ovens at the installation there is no history of any odour complaints. The combustion units were installed in 2016 and have a capacity of 6050kw and a very limited capacity to pose a risk to the environment.

The installation poses very limited risk to the designated sires close to it, namely Humber flats and Marshes SSSI (1.2km) and Humber Flats SPA (2.9km)

The site has had a Climate Change Levy agreement in place since 2001 and set targets for improving energy efficiency year on year as part of their EMS.

Waste reduction has also been targeted and through the EMS targets are set to improve efficiency of raw material use and implement the waste hierarchy.

The installation operates under an ISO 14001 certified management system which has been in place since February 2017 and is certified currently by BSi.

**6. Environmental Risk Assessment**

An environmental risk assessment has been presented on the following page utilising the guidance presented at [Risk assessments for your environmental permit - GOV.UK (www.gov.uk)](https://www.gov.uk/guidance/risk-assessments-for-your-environmental-permit#how-to-do-RA).

No quantitative data has been added to the RA as none was required under the previous permit. There is no history of any enforcement action taken during the operation of the previous permit and the site has always been compliant with the EA as evidenced during numerous visits and compliance reports.

The discharge to sewer is regulated by the Sewerage undertaker, Yorkshire Water and has always been in compliance with the discharge consent and the parameters within it.

There is no history of any nuisance complaints relating to odour, noise and vibration from the installation. The installation is located within a predominantly industrial area.

The nearest residential properties are approximately 200 meters from the installation boundary to the North West, there is a railway line to the north, north west and west of site between the installation and the residential properties.

| **Hazard** | **Receptor** | **Pathway** | **Risk management techniques** | **Probability of exposure** | **Consequence** | **Overall risk** |
| --- | --- | --- | --- | --- | --- | --- |
| **Emissions to atmosphere (point source)** | There are residential properties approximately 200 metres to the North West of the installation.  There are designated sites SSSI and SPA, within 3 km of the installation | Wind-blown  Wind blown | Emissions to atmosphere are from ovens and are very limited in terms of potential pollutants. Ovens are subject to planned preventative maintenance (PPM) and gas fired combustion equipment is modern 2016  As above there are very limited potential pollutants emitted from activities at the installation | Very limited exposure to due to limited nature of pollutants within emissions  Very limited exposure to due to limited nature of pollutants within emissions | Very low levels are unlikely to have a discernible impact  Very low levels are unlikely to have a discernible impact | Very low  Very low |
| **Emissions to atmosphere (fugitive)** | There are residential properties approximately 200 metres to the North West of the installation.  There are designated sites SSI and SPA, within 3 km of the installation | Wind-blown  Wind blown | The site operates an EMS which has within it procedures to control the process that might give rise to fugitive emissions to atmosphere such as a spill or leak. In addition all plant is subject to PPM. Bulk deliveries are conducted by trained drivers and all are inducted.  As above. Limited potential for fugitive emissions given controls in place. | Very limited exposure due to controls  Very limited exposure to due to limited nature of pollutants within emissions | Nuisance issues only.  No hazardous materials likely to be emitted so limited impact such as nuisance/ | Very low with controls  Very low with controls. |
| **Emissions to water(point source)** | Discharge to controlled water  Discharge to foul sewer  There are designated sites SSI and SPA, within 3 km of the installation | There is no discharge to controlled waters from the installation  Site drainage systems and consented discharge point  Via the drainage system and WTW | No drains on site discharge to controlled waters.  Process effluents are generated from controlled cleaning processes. Chemical use is strictly limited through procedures and training. Effluent passes through a settlement process and is monitored to ensure it meets discharge consent. There is no history of breaching consent. Effluent is treated at a WTW prior to final discharge.  All effluent discharged is within consent and is subject to treatment at Yorkshire Water WTW prior to discharge. | Extremely unlikely given lack of drainage  Very unlikely. All effluent is treated on site and at a WTW prior to final discharge. Discharge consent parameter are always met.  Very unlikely. Tight controls in place on site and at WTW | Effluent on site does not have characteristics likely to cause significant harm  All effluent is treated prior to discharge so effluent characteristics are unlikely to cause significant harm  All effluent is treated prior to discharge so effluent characteristics are unlikely to cause significant harm | Very low  Low  Very Low |
| **Emissions to water(fugitive)** | Discharge to controlled water  Discharge to foul sewer  There are designated sites SSI and SPA, within 3 km of the installation | There are no drains that discharge to controlled water in site  Site drainage systems and consented discharge point  Site drainage | No drains on site discharge to controlled waters.  Spill clean up procedures are in place and all effluent passes through settlement prior to discharge. Emergency procedures are in place as part of the EMS  Spill clean up procedures are in place and all effluent passes through settlement prior to discharge | Extremely unlikely given lack of drainage  Very unlikely. All effluent is treated on site and at a WTW prior to final discharge. Discharge consent parameter are always met.  Very unlikely. No drains leave site without passing through the effluent treatment system. | Effluent on site does not have characteristics likely to cause significant harm  All effluent is treated prior to discharge so effluent characteristics are unlikely to cause significant harm  All effluent is treated prior to discharge so effluent characteristics are unlikely to cause significant harm | Very low  Low  Very Low |
| **Odour** | There are residential properties approximately 200 metres to the North West of the installation. | Wind-blown | The site operates ovens which discharge to atmosphere, the oven processes are strictly controlled by the quality and environmental management systems. The EMS contains a procedure for dealing with complaints, including odour, none have ever been received. | Very limited exposure due to controls | Nuisance issues only. None have ever been reported | Very low  . |
| **Noise and Vibration** | There are residential properties approximately 200 metres to the North West of the installation. | Air and ground | Processes on site do not generate large amounts of noise and vibrations. The EMS contains a procedure for dealing with complaints, including noise and vibration, none have ever been received. | Very limited exposure due to controls | Nuisance issues only. None have ever been reported | Very low  . |
| **Visible emissions** | Local residents | Airborne | The site operates ovens which discharge to atmosphere, the oven processes are strictly controlled by the quality and environmental management systems. The EMS contains a procedure for dealing with complaints, including visual, none have ever been received. | Waste left unattended could result in problems offsite | Potential for spread of disease and adverse health impacts on vulnerable people | Very Low. |

**6b Climate change risk screening**

**Humber river basin district: climate change risk assessment worksheet**

Name (as on your part A application form): Aunt Bessies

Our permit reference number (if you have one): **EA/EPR/JP3100MM/A001**

**Risk assessment worksheet for the 2050s**

Humber river basin district

You must carry out a climate change risk assessment for any new bespoke waste and installations permit applications if you expect to operate for more than 5 years. Use the [user guide](https://www.gov.uk/guidance/adapting-to-climate-change-risk-assessment-for-your-environmental-permit) to complete the table. You can add in extra pages if necessary.

Consider how your operations will be affected by the changes in weather and climate described in the table. Consider any changes to average climate conditions that may impact on your operations, for example extreme rainfall.

Also consider:

• critical thresholds - where a ‘tipping point’ is reached, for example a specific temperature where site processes cannot operate safely

• changes to averages - for example an entire summer of higher than expected rainfall causing waterlogging

• where hazards may combine to cause more impacts

You can add in other climate variables if you wish.

If you have stated on your application form that you do not expect to be operational in 2050, you must still consider climate change risks for the time you do intend to operate. Whilst the variables are for the 2050s, this is an estimated date and you may experience these conditions before then.

This worksheet will sit in your management system. It must appear on the management system summary you submit with your application, even if you do not need to submit the whole risk assessment with your application.

If your pre-mitigation risk score (column D) is 5 or higher, you must complete columns E to H.

| **Potential changing climate variable** | **A**  **Impact** | **B**  **Likelihood** | **C**  **Severity** | **D**  **Risk**  (B x C) | **E**  **Mitigation**  (what will you do to mitigate this risk) | **F**  **Likelihood**  (after mitigation) | **G**  **Severity**  (after mitigation) | **H**  **Residual risk**  (F x G) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Summer daily maximum temperature may be around 6°C higher compared to average summer temperatures now. | Additional cooling uncomfortable working conditions | 2 | 2 | 4  Moderate to low |  |  |  |  |
| 2. Winter daily maximum temperature could be 4°C more than the current average, with the potential for more extreme temperatures, both warmer and colder than present. | Very limited issues, some additional energy requirements for ovens | 2 | 2 | 4  Moderate to low |  |  |  |  |
| 3. The biggest rainfall events are up to 20% more intense than current extremes (peak rainfall intensity)\*. | Localised flooding although not currently within an area deemed at risk | 2 | 3 | 6  Moderate to low |  | 2 | 2 | 4 |
| 4. Average winter rainfall may increase by 29% on today’s averages. | Localised flooding although not currently within an area deemed at risk | 2 | 3 | 6  Moderate to low | Continue to store materials away from any area deemed to be flood risk and review business continuity plans and flood planning documents | 2 | 2 | 4 |
| 5. Sea level could be as much as 0.6m higher compared to today’s level \*. | Localised flooding although not currently within an area deemed at risk | 2 | 3 | 6  Moderate to low | Continue to store materials away from any area deemed to be flood risk and review business continuity plans and flood planning documents | 2 | 2 | 4 |
| 6. Drier summers, potentially up to 34% less rain than now. | No issues identified for site other than potentially increased prices for water | 2 | 2 | 4  Moderate to low | monitor water prices and seek best deals whilst looking to minimise use | 2 | 2 | 4 |
| 7. At its peak, the flow in watercourses could be 30% more than now, and at its lowest it could be 65% less than now. | No current issues with flood risk and no history of flooding | 2 | 3 | 6  Moderate to low | Continue to store materials away from any area deemed to be flood risk and review business continuity plans and flood planning documents | 2 | 2 | 4 |

\*Indicates data has come from climate change allowances as part of the spatial planning process. Evidence from your planning submission is acceptable evidence for this worksheet.

**Part B3- new bespoke installation permit**

**1 What activities are you applying for?**

**Table 1a – Types of activities**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Schedule 1 listed activities** | | | | | | |
| **Installation name** | **Schedule 1 or other references** | **Description of the activity** | **Activity capacity** | **Annex1 (D codes & Annex 11 (R codes) & descriptions** | **Hazardous waste treatment capacity (if this applies)** | **Non-hazardous waste treatment capacity (if this applies)** |
|  | Treating and processing materials intended for the production of food products from animal raw materials (other than milk) at a plant with a finished product production capacity of more than 180 tonnes per day | Production of ready to bake Yorkshire puddings and baked Yorkshire puddings, toad in the hole in Zone 1 factory, meat & fruit pies, dumplings, stuffing balls, fruit crumble, lemon, toffee & chocolate sponges & jam roly poly in Zone 2 factory. Total site production approximately 40,000 tonnes | Receipt of raw materials and ingredients to despatch of finished product, incorporating the activities below | N/A | N/A | N/A |
| **Directly associated activities** | | | | | | |
| **Name of DDA** | | |  |  |  |  |
| Storage and handling of raw materials & ingredients | Storage and handling of raw materials, ingredients and cleaning materials received in various containers including refrigeration storage | | From receipt and storage of raw materials, ingredients and cleaning materials to transfer to processing areas |  |  |  |
| Storage and handling of waste materials | Storage and handling of waste materials arising from processing activities according to category, including preparation for disposal or recovery | | From generation of waste materials to despatch for disposal or recovery |  |  |  |
| Control and abatement systems for emissions to air and releases to sewer | Operation of site abatement systems for the control of releases to air and sewer | | Collection and primary treatment pf process effluent prior to discharge to fowl sewer: operation of combustion units (boiler and ovens) |  |  |  |
| Cleaning activities | Cleaning of process equipment according to hygiene requirements using propriety chemical cleaning systems | | Cleaning activities during/after production runs, including disposal of wate arising |  |  |  |
| Utilities and services | Operations of site systems for the supply of utilities and services such as electricity, gas, steam, compressed air, refrigeration and hot water | | Site utility and services systems as far as the installation boundary; combustion units approximately 9 MWTh input |  |  |  |

1. **Point source emissions to air water and land**

Point source emissions to air listed below and shown on plan **AEP001**, given the nature of the emissions to atmosphere they have been previously been deemed to be insignificant and have not been required to be monitored therefore parameter, quantity and unit columns have been deemed to be not applicable.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Installation name | Aunt Bessies Freightliner Road Hull HU3 4UW | | | |
| **Point source emission to air** | | | | |
| Emission point reference and location | Source | Parameter | Quantity | Unit |
| A1 – *A1 on-site location plan Doc ref AEP001* | Steam generator | n/a | n/a | n/a |
| A2 – *A2 on-site location plan Doc ref AEP001* | Travelling oven vent | n/a | n/a | n/a |
| A3 – *A3 on-site location plan Doc ref AEP001* | Travelling oven vent | n/a | n/a | n/a |
| A4 – *A4 on-site location plan Doc ref AEP001* | Travelling oven vent | n/a | n/a | n/a |
| A5 – *A5 on-site location plan Doc ref AEP001* | Travelling oven vent | n/a | n/a | n/a |
| A6 – *A6 on-site location plan Doc ref AEP001* | Travelling oven vent | n/a | n/a | n/a |
| A7 – *A7 on-site location plan Doc ref AEP001* | Travelling oven vent | n/a | n/a | n/a |
| A8 – *A8 on-site location plan Doc ref AEP001* | Travelling oven vent | n/a | n/a | n/a |
| A9 – *A9 on-site location plan Doc ref AEP001* | Travelling oven vent | n/a | n/a | n/a |
| A10 – *A10 on-site location plan Doc ref AEP001* | Travelling oven vent | n/a | n/a | n/a |
| A11 – *A11 on-site location plan Doc ref AEP001* | Travelling oven vent | n/a | n/a | Mg/m3 |
| A12 – *A12 on-site location plan Doc ref AEP001* | Travelling oven vent | n/a | n/a | Mg/m3 |

1. **Operating techniques**

The installation produces various frozen food products over two adjacent buildings, known as zone 1 and zone 2.

The sites share certain plant and services, such as water, gas, electricity and refrigeration – main items of plant are shown in plans **SMP001** in the electronic files provided.

The principal plant employed in processing the raw materials comprises ovens and freezers. Raw materials are stored in accordance with their characteristics and techniques include bulk storage for edible oils and liquid egg, silos for flour and both refrigerated and ambient storage for meat, sausages, pre-processed fruits, bread crumb and margarine.

All processes on site are described in the process flow diagrams included as part of the electronic files – these are in excel format and show the steps from raw materials through to finished products.

Document references – **zone 1 flowchart area 1, zone 1 flowchart area 2, zone 1 flowchart area 3 and zone 1 flowchart area 4**. Zone 2’s processes are shown in **area 1 flow diagram, area 2 flow diagram, area 3 flow diagram and area 4 flow diagram**. All process flows are subject to continual review but are indicative of the process operated on site at time of application.

**3c Table 5 types and amounts of raw material**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name of the installation | | Aunt Bessie’s, Freightliner Road, Hull, East Yorkshire, HU3 4UW | | |
| Capacity (see note 1 below) | | 320 | | |
| Schedule 1 activity | Description of raw material and composition | Maximum amount (tonnes)  (See note 2 below) | Annual throughput  (tonnes each year) | Description of the use of the raw material including any main hazards (include safety data sheets) |
| Treating and processing materials intended for the production of food products from animal raw materials (other than milk) at a plant with a finished product production capacity of more than 75 tonnes per day | Sugar | 25 | 953 | For use in manufacturing food products on site |
| Treating and processing materials intended for the production of food products from animal raw materials (other than milk) at a plant with a finished product production capacity of more than 75 tonnes per day | Liquid Egg | 30 | 5,164 | For use in manufacturing food products on site |
| Treating and processing materials intended for the production of food products from animal raw materials (other than milk) at a plant with a finished product production capacity of more than 75 tonnes per day | Vegetable/Rapeseed Oil | 25 | 1,363 | For use in manufacturing food products on site |
| Treating and processing materials intended for the production of food products from animal raw materials (other than milk) at a plant with a finished product production capacity of more than 75 tonnes per day | Flour | 125 | 13,050 | For use in manufacturing food products on site |
| Treating and processing materials intended for the production of food products from animal raw materials (other than milk) at a plant with a finished product production capacity of more than 75 tonnes per day | Sausage Meat | 19 | 400 | For use in manufacturing food products on site |
| Treating and processing materials intended for the production of food products from animal raw materials (other than milk) at a plant with a finished product production capacity of more than 75 tonnes per day | Beef | 13 | 80 | For use in manufacturing food products on site |
| Treating and processing materials intended for the production of food products from animal raw materials (other than milk) at a plant with a finished product production capacity of more than 75 tonnes per day | Chicken | 25 | 365 | For use in manufacturing food products on site |
| Treating and processing materials intended for the production of food products from animal raw materials (other than milk) at a plant with a finished product production capacity of more than 75 tonnes per day | Diced Onions | 13 | 289361 | For use in manufacturing food products on site |
| Treating and processing materials intended for the production of food products from animal raw materials (other than milk) at a plant with a finished product production capacity of more than 75 tonnes per day | Apple | 25 | 1,730 | For use in manufacturing food products on site |
| Treating and processing materials intended for the production of food products from animal raw materials (other than milk) at a plant with a finished product production capacity of more than 75 tonnes per day | Apple Puree | 8 | 469 | For use in manufacturing food products on site |
| Treating and processing materials intended for the production of food products from animal raw materials (other than milk) at a plant with a finished product production capacity of more than 75 tonnes per day | Mains Water |  | 71,900 | For use in manufacturing food products on site and associated welfare usage |
| Treating and processing materials intended for the production of food products from animal raw materials (other than milk) at a plant with a finished product production capacity of more than 75 tonnes per day | Cleaning Chemicals | 5 | 36 | For use in cleaning associated processing equipment on site |

**4.a describe the measures you use for monitoring emissions by referring to each emission point in table 2.**

The only monitoring of emissions on site is of the point source emission to sewer, S1. Emissions to atmosphere were deemed under the previous permit to not require monitoring.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Emission point** | **Describe measures used for monitoring emission** | **How often you use these measures** | **The methods you use** | **The procedures you follow to assess the measures** |
| S1 – Effluent pit | PH value of the effluent shall not be less than 6 nor more than 10 at the approved measuring point | Quarterly | Spot sample repot carried out by external independent company | Analyse data received on report  Check PH on site if need to monitor if readings out of specification  Data imputed on data spreadsheet for monitoring |
|  | Settled chemical oxygen demand (COD) shall not exceed 1000mg per litre | Quarterly | Spot sample repot carried out by external independent company | Analyse data received on report  Data imputed on data spreadsheet for monitoring |
|  | Total load of COD discharged in 24 hours shall not exceed 600 kg | Quarterly | Spot sample repot carried out by external independent company | Analyse data received on report  Data imputed on data spreadsheet for monitoring |
|  | Total oil and grease shall not exceed 500mg per litre | Quarterly | Spot sample repot carried out by external independent company | Oil removed by rope skimmer on site continually, also analyse data received on report.  Data imputed on data spreadsheet for monitoring |
|  | Settleable solids shall not exceed 4000mg per litre | Quarterly | Spot sample repot carried out by external independent company | Analyse data received on report  Data imputed on data spreadsheet for monitoring |
|  | Total load of settleable solids discharged in 24 hours shall not exceed 525 kg | Quarterly | Spot sample repot carried out by external independent company | Analyse data received on report  Data imputed on data spreadsheet for monitoring |
|  | Volume of rate of discharge from the premises to the sewer | Bimonthly | CELLO report carried out by external independent company | Calibration of the flow meter weekly checks of meter readings  Data imputed on data spreadsheet for monitoring |
|  | The quantity of effluent discharged shall not exceed 450 cubic meters in 24 hours | Bimonthly | CELLO report carried out by external independent company | Calibration of the flow meter  Data imputed on data spreadsheet for monitoring |
|  | The rate of discharge effluent shall not exceed 20 litres per second | Bimonthly (on day of testing) | CELLO report carried out by external independent company | Calibration of the flow meter  Data imputed on data spreadsheet for monitoring |

**6. Resource efficiency and climate change**

**6.a. basic measures for improving how energy efficient your activities are.**

The company has been part of a climate change agreement since 2001 and as such has taken many steps to improve energy efficiency at site. These steps include purchase of more energy efficient plant and equipment such as the combustion plant. Retrofitting of lighting in parts of the site. All staff have been trained to make them aware of the need for energy efficiency and actions they can take to be more energy efficient. Energy KPIs are included as part of the EMS and energy data is regular collated and analysed.

**6b provide a breakdown of any changes to the energy your activities use up and create**

Combustion plant newly installed and more energy efficient

LED lighting

New burners fitted to ovens to improve efficiency.

High efficiency transformers

Wind Turbine

Refrigeration installation

Air compressor upgrades.

Serpentine oven upgrade on thermal oil boiler

Electric car charging points in zones 1 and 2.

**6c. Have you entered into, or will you enter into, a climate change levy agreement?**

Yes – the site has been part of a CCLA since 2001. Document reference **PP11 main elec TGP Jun21**, the climate change levy supplier certificate has been provided in the electronic files.

**6d. explain and justify the raw and other materials, other substances and water that you will use.**

As a food manufacturer all raw materials and process materials are strictly controlled as part of the quality management system and as part of food hygiene requirements. Most materials are controlled and weighed out prior to use to ensure the quality of product. As the end product is for consumption there are no hazardous materials used in production at all and minimal chemical is used during cleaning processes. Water and materials used are included in the EMS as KPIs and reported on and looked at for means to reduce consumption and avoid waste where ever possible.

**6.e. Describe how you avoid producing waste in line with the council directive 2008/98/EC on waste**

As part of the EMS there are KPIs on waste and the waste hierarchy is considered for all waste streams on site. Efforts are made to ensure that maximum yield is achieved in our processes as part of the EMS and QMS processes and regular data is collated and analysed to ensure that this is the case. Periodically and where a need is identified, projects will be run in production areas to trail new processes to reduce waste generation and these are adopted as part of the management systems where successful.

**7. installations that include a combustion plant**

**7.a. list all your combustion plant at the site and provide thermal input and operating hours for each**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Location** | **Combustion equipment** | **No of units** | **Thermal input** | **Operating hours** |
| **Production Ovens SAS 1,2 & 3** | **Weishaupt (Install date 2016-2017)** | **11** | **(11x550) 6050KW** | **5000-6000 per annum** |
| **Thermal Oil Unit** | **Weishaupt (Install date circa 2017)** | **1** | **1600KW** | **3360 per annum** |
| **H/W Heaters** | **Lochinvar 2070CE (Install pre 2018)** | **2** | **(552.1 x 2) 1104.4KW** | **7488 per annum** |
| **Certuss steam boiler** | **Universal 1500 TC NG (Install date 2020)** | **2** | **(1093x2) 2186 KW** | **3600 per annum** |
| **H/W Heater** | **Ideal Viceroy (Install date pre 2018)** | **1** | **814KW** | **7488 per annum** |
| **H/W Heater** | **Andrews SH60 (Install pre 2018)** | **2** | **(2x290) 580KW** | **7488 per annum** |
| **Tray Wash** | **Nuway (Install 2008)** | **1** | **81KW** | **1500 per annum** |
| **Total** |  |  | **Total site thermal input = 12415.4KW**  **12.415MW** |  |

**7b Appendix 1 question 13**

|  |  |
| --- | --- |
| Thermal oil Unit | |
| MCP specific identifier | 40382273 |
| 12-digit grid reference or latitude/longitude | 506830427130 |
| Rated thermal input (MW) of the MCP | 1.6MW |
| Type of MCP (diesel engine, gas turbine, other engine or other MCP) | Gas burner |
| Type of fuels used: gas oil (diesel), natural gas, gaseous fuels other than natural gas | Natural gas |
| Date when the new MCP was first put into operation | 2016 |
| Sector of activity of the MCP or the facility in which it is applied (NACE code) | C10 Manufacturer of food products |
| Expected number of annual operating hours of the MCP and average load in use | 3360 |
| Where the operation of exemption under Article 6(8) is used the operator (as identified on Form A) should sigh a declaration here that the MCP will not operate more than the number of hours referred to in this paragraph. |  |

|  |  |
| --- | --- |
| Certuss steam boiler | |
| MCP specific identifier | 15352 |
| 12-digit grid reference or latitude/longitude | 506830427130 |
| Rated thermal input (MW) of the MCP | 1.093MW |
| Type of MCP (diesel engine, gas turbine, other engine or other MCP) | Gas burner |
| Type of fuels used: gas oil (diesel), natural gas, gaseous fuels other than natural gas | Natural gas |
| Date when the new MCP was first put into operation | 2020 |
| Sector of activity of the MCP or the facility in which it is applied (NACE code) | C10 Manufacturer of food products |
| Expected number of annual operating hours of the MCP and average load in use | 3600 |
| Where the operation of exemption under Article 6(8) is used the operator (as identified on Form A) should sigh a declaration here that the MCP will not operate more than the number of hours referred to in this paragraph. |  |

|  |  |
| --- | --- |
| Certuss steam boiler | |
| MCP specific identifier | 15353 |
| 12-digit grid reference or latitude/longitude | 506830427130 |
| Rated thermal input (MW) of the MCP | 1.093MW |
| Type of MCP (diesel engine, gas turbine, other engine or other MCP) | Gas burner |
| Type of fuels used: gas oil (diesel), natural gas, gaseous fuels other than natural gas | Natural gas |
| Date when the new MCP was first put into operation | 2020 |
| Sector of activity of the MCP or the facility in which it is applied (NACE code) | C10 Manufacturer of food products |
| Expected number of annual operating hours of the MCP and average load in use | 3600 |
| Where the operation of exemption under Article 6(8) is used the operator (as identified on Form A) should sigh a declaration here that the MCP will not operate more than the number of hours referred to in this paragraph. |  |