Variation notice with introductory note

Pollution Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013

Operator Name: Karro Food Ltd

Installation address: 70 Molesworth Road,
Cookstown,
Co Tyrone,
BT80 8PJ

Variation number
P0067/05A/V6

Permit number
P0067/05A

Introductory note

This introductory note does not form part of the Variation Notice

The following Notice is issued under Regulation 19 of the Pollution Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013 ("the PPC (IE) Regulations") to vary the conditions of a Permit issued under those Regulations to operate *[part of]* an installation carrying out one or more of the activities listed in Part 1 to Schedule 1 of those Regulations. The Notice comprises a Schedule containing conditions to be deleted and conditions to be added. The Notice is subject to the express conditions set out in the Schedule.

It should be noted that aspects of the operation of the installation not regulated by those conditions are subject to the condition implied by Regulation 12(9) of the PPC(IE) Regulations, that the Operator shall use the best available techniques for preventing, or where that is not practicable, reducing emissions from the installation.

Techniques include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.

The enforcing authority for Part A installations in Northern Ireland is the Chief Industrial Pollution Inspector. Under Regulation 8(4), any function of the Chief Inspector may be delegated to any other Inspector appointed by the Department of Agriculture, Environment and Rural Affairs and references to the Chief Inspector should be interpreted accordingly.

Brief description of the changes introduced by this notice.

This variation is to include a date for the completion and commissioning of the upgrade to the effluent treatment plant (ETP). The upgrade as detailed in the application for variation P0067/05A/V5 is to be commissioned by 30th September 2019 as agreed in an email from the Operator to NIEA dated 21/06/2018.

Other PPC Permits relating to this installation		
Permit holder	Permit Number	Date of Issue

Superseded Licenses/Consents/Authorisations relating to this installation		
Holder	Reference Number	Date of Issue

Talking to us

If you contact us about this variation, please quote the variation number.

Confidentiality

If this variation requires the Operator to provide information to the Chief Inspector, we will place the information onto the public registers in accordance with the requirements of the PPC (IE) Regulations. If the Operator considers that any information provided is commercially confidential, it may apply to the Chief Inspector to have such information withheld from the registers as provided in the PPC Regulations. To enable us to determine whether the information is commercially confidential, the Operator should clearly identify the information in question and should specify clear and precise reasons.

Record of Changes

The Status Log with this and any subsequent variation includes / will include summary details of the permit, variations up to that point in time and state whether a consolidated version of the Permit has been issued.

Status Log

Detail	Date	Comment
Application P0067/05A	Received 25/2/2005	
Response Schedule 4 Notice	Request dated 19/8/2005	Response dated 29/9/2005
Permit P0067/05A	Determined 22/12/05	
Variation P0067/05A/V1	Notice issued 9/5/07	
Application for variation	Received 17/4/2008	
Variation P0067/05A/V2	Determined 29/8/2008	
Application for variation	Received 29/6/2009	
Variation P0067/05A/V3	Determined 29/6/2009	
Permit Review		
Variation P0067/05A/V4	Determined	Effective
Application for variation	Duly Made 22/10/2015	
Response to request for information	Request dated 11/11/2015	Response dated 03/02/2016
Response to request for information	Request dated 18/02/2016	Response dated: 07/11/2017
Variation P0067/05A/V5	Determined: 15/12/2017	Effective: 22/12/2017
Application for variation	Duly Made 22/08/2018	
Variation P0067/05A/V6	Determined: 03/09/2018	Effective: 10/09/2018

End of introductory note.

VARIATION NOTICE

Pollution Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013

Permit Number
P0067/05A

Variation Number
P0067/05A/V6

The Chief Inspector in exercise of his powers under Regulation 19 of the Pollution Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013 hereby varies the Permit P0067/05A

Karro Food Ltd
("the Operator"),

whose Registered Office is
13 Queens Road,
Aberdeen,
AB15 4YL

Company registration number SC220000

to operate an Installation at
70 Molesworth Road
Cookstown
Co Tyrone
BT80 8PJ

subject to the conditions contained in the Schedule to this notice

This variation notice shall have effect from 10/09/ 2018.

Signed [redacted]

Chief Inspector

Date 05/09/18

Schedule to Notice

CONDITION TO BE DELETED

All previous conditions

CONDITION TO BE ADDED

Following pages

Conditions

1 General

1.1 The Permitted Activities

1.1.1 The Operator is authorised to carry out the activities and/or the associated activities specified in Table 1.1.1.

Table 1.1.1 Descriptions or Permitted Activities

Activity under Schedule 1 of the Regulations/ Associated Activity	Description of specified activity	Schedule 1 Activity Reference (if applicable)	Limits of Specified Activity
Slaughtering animals at a plant with a carcass production capacity of more than 50 tonnes per day	Slaughtering of pigs	6.8 Part A (b)	Receipt of live pigs to transfer of carcasses to processing area
Treating and processing materials intended for the production of food products from animal raw materials with a finished product production capacity of more than 75 tonnes per day	Chilling, butchery and portioning of pigs	6.8 Part A (d) (i)	Receipt of animal carcasses to processing area and dispatch of finished goods or Animal By-products
		Directly associated activities	• steam generation • electrical generation • effluent treatment

1.2 The Site

1.2.1 The activities authorised under condition 1.1 shall not extend beyond the Site, being the area shown edged in bold on the plan at Schedule 5.

1.3 Overarching Management Condition

Without prejudice to the other conditions of this Permit, the Operator shall implement and maintain a management system, organisational structure and allocate resources that are sufficient to achieve compliance with the limits and conditions of this Permit.

1.4 Pre Operation Conditions

1.4.1 The proposed effluent treatment plant (ETP) upgrade will be constructed in accordance with the design and specifications submitted in support of the application for PPC Permit Variation P0067/05A/V5 and commissioned no later than 30th September 2019 as agreed in an email to NIEA dated 21/06/2018.

1.4.2 The balance tank for the proposed ETP upgrade will be fitted with a GRP cover, will have adequate mixing and will be vented via a ground level carbon filter in accordance with the design and specifications submit in support of the application for PPC Permit Variation P0067/05A/V5.

1.4.3 The DAF unit for the proposed ETP will be located within a suitable building which will be ventilated via a carbon filter in accordance with the design and specifications submit in support of the application for PPC Permit Variation P0067/05A/V5.

1.4.4 The sludge de-watering unit for the proposed ETP will be located within a suitable building which will be ventilated via a carbon filter in accordance with the design and specifications submitted in support of the application for PPC Permit Variation P0067/05A/V5.

1.4.5 A detailed changeover/ transition plan shall be submitted at least 28 days prior to changeover from the existing ETP to the new upgraded plant. This plan should detail the stages involved in the changeover and the timescales involved. The plan must also identify periods of higher risk during which there may be increased odorous emissions or a deterioration in the quality of the trade effluent discharged. Contingency measures should be identified to manage these periods of higher risk and minimise the possible impacts.

1.4.6 A detailed training plan for Karro Food staff involved in management of the ETP shall be submitted at least 28 days prior to changeover to the upgraded plant. This plan should detail the Karro personnel involved and the training to be undertaken.

1.4.7 All alarms associated with the upgraded ETP will be of a silent type. All existing auditable alarms will be replaced with silent alarms.

1.4.8 Construction of the upgraded ETP shall be completed in accordance with the recommendations detailed in Section 7.0 of the report *"Noise Impact Assessment Report"* dated February 2015 submitted in support of the application for PPC Permit Variation P0067/05A/V5.

1.5 Off Site Conditions

1.5.1 There are no off site conditions.

1.6 Minor Operational Changes

1.6.1 When the qualification "or as otherwise agreed in writing" is used in a condition of this Permit, the Operator shall seek such agreement in the following manner:

a) the Operator shall give the Chief Inspector written notice of the details of the proposed change, indicating the relevant part(s) of this Permit; and

b) such notice shall include an assessment of the possible effects of the proposed change, (including waste production), on risks to the environment from the

permitted installation; any relevant supporting assessments/drawings; and the proposed implementation date.

1.6.2 Any change proposed according to condition 1.6.1 shall not be implemented until it has been agreed in writing by the Chief Inspector. As from the agreed implementation date, the Operator shall operate the Permitted Installation in accordance with that change, and relevant provisions in the Application shall be deemed to be amended.

2 Operating Conditions and Emission Controls

2.1 In Process Controls

2.1.1 The Permitted Installation shall, subject to the conditions in this Permit, be operated using the techniques and in the manner described in the Application, or as otherwise agreed in writing by the Chief Inspector.

2.1.2 The sulphur content of liquid fuels burned on site shall be in accordance with the Sulphur Content of Liquid Fuels Regulations (Northern Ireland) 2007. The sulphur content of Heavy Fuel oil shall not exceed 1% by weight, and distillate shall not exceed 0.1% by weight).

2.1.3 The Operator shall only use kerosene, gas oil, natural gas, LPG or processed fuel oil as fuel or as otherwise agreed in writing by the Chief Inspector.

2.1.4 The use, containment, monitoring, recovery and disposal of Fluorinated (F) gases and Ozone Depleting Substances (ODS) shall comply with the Fluorinated Greenhouse Gas Regulations (Northern Ireland) 2009, as amended, and with the EC Regulation 1005/2009 on Substances that Deplete the Ozone Layer in particular by:

- using only recycled or reclaimed substances when topping up or refilling ODS systems;
- replacing ODS by 1st January 2015;
- using appropriately qualified personnel for installing, maintaining and leak checking;
- holding a valid Company Certificate if installing or maintaining F gas systems;
- checking for and repairing leaks;
- recovering F gases or ODS in refillable containers;
- disposing of F gases or ODS as hazardous waste, when relevant;

and

- keeping records of training, maintenance and leak checks as well as quantities and types of F gas or ODS for each system.

2.1.5 The Operator may only use processed fuel oil (PFO) that meets the requirements of the NIEA/ Environment Agency / WRAP's "*Quality Protocol – End of waste criteria for the production and use of processed fuel oil from waste lubricating oils*". Where PFO is used as a fuel, the Operator shall:

(i) only accept PFO from a facility permitted to produce PFO;
(ii) obtain a certificate of conformity in accordance with the quality protocol from the PFO producer prior to unloading each delivery of PFO at the Permitted Installation;
(iii) reject any deliveries of PFO that do not meet the quality protocol; and
(iv) keep records of all deliveries of PFO for a minimum of 3 years, (including certificates of conformity with the quality protocol and details of any rejected deliveries).

Any changes from the above arrangements must be agreed in writing with the Chief Inspector.

2.1.6 The Operator shall implement and maintain a system for the protection of ground and groundwater and shall carry out regular reviews at a minimum frequency of every 2 years

2.2 Emissions

2.2.1 Emissions to Air (other than odour, noise and vibration)

2.2.1.1 Emissions to air from the emission points specified in Table 2.2.1.1 shall only arise from the source specified in that Table at the locations specified in the Application.

Table 2.2.1.1: Emission Points to Air

Emission Point Reference/Description	Source
EP01	Main Boiler Stack
EP04	Domestic boiler vent
EP06	Heater stack
EP16	Diesel generator No1 exhaust
EP17	Diesel generator No2 exhaust
EP17a	Diesel generator No3 exhaust
EP26	CO2 stunner extraction fan
EP30	Singer exhaust
EP21	De-hairer exhaust
EP32	De-hairer exhaust
EP73	Smoker exhaust

2.2.1.2 The limits for emissions into air for the parameter(s) and emission point(s) set out in Table 2.2.1.2 shall not be exceeded.

Table 2.2.1.2: Emission limits into air

Release Point	Parameter	Value	Monitoring requirement	Notes
EP01, EP16, EP17, EP17a	Smoke	Ringelmann Shade 0 (or 1 if burning HFO, tallow or PFO).		Determined by British Standard BS 2742:2009 This limit applies at all times, except for a maximum of 15 minutes at start up

Note [1]advanced notification of 14 days required, using method or as agreed by the Chief Inspector

2.2.1.3 The Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emissions to air from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.2 Emissions to Water [other than emissions to sewer]

Emissions to water shall only arise from the emission points and the sources specified in Table 2.2.2.1 at locations specified in the application.

Table 2.2.2.1: Emission limits into water

Emission Point Reference	Source	Receiving Water
DP004	Surface drainage for south of installation	Water course referred to as 'Dirty Burn' at SW of installation

2.2.2.2 Limits for the emissions to water for the parameter(s) and emission point(s) set out in Table 2.2.2.2 shall not be exceeded.

Table 2.2.2.2: Emission limits into water

Release point	Parameter	Value[1]	Monitoring Requirement	Notes
DP004	Suspended Solids	50 mg/l	Quarterly spot sample to be sampled at manhole prior to discharge	Using method BS EN 872, or as agreed with the chief inspector
	pH (range)	6 - 9		Using method ISO 10523, or as agreed with the Chief Inspector
	Biochemical oxygen demand (BOD)	20 mg/l		Using method BS EN 1899, or as agreed with the Chief Inspector
	Visible oil & grease	None visible	Weekly spot sample to be sampled at manhole prior to discharge	Visual, or as agreed with Chief Inspector
	Temperature	25°C		Thermocouple or as agreed with Chief Inspector

Note [1] The limit shall apply to any spot and composite samples collected by the Chief Inspector and/or the Operator.

2.2.2.3 The Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emissions to water from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant. The Operator shall not allow any release that would cause a breach of an EQS established to implement Directive 2008/105/EC on Environmental Quality Standards in the field of Water Policy.

2.2.2.4 The Operator shall not discharge any substance to such an extent as to cause:

- the waterway or water in an underground stratum to be toxic to aquatic organisms; or

- the receiving water or any other waters of which the receiving waters are a tributary to be poisonous or injurious to fish, spawning grounds, spawn or food of fish in those waters or otherwise cause damage to those waters.

2.2.3 Emissions to Sewer

2.2.3.1 Emissions to sewer from the emission point specified in Table 2.2.3.1, (at the location and manner described in the Application, subject to the conditions in this Permit), shall only arise from the source specified in that Table.

Table 2.2.3.1: Emission points into sewer

Emission point reference/ description	Source
DP001	Effluent from site effluent treatment plant

2.2.3.2 Limits for the emissions to sewer for the parameters and emission points set out in Table 2.2.3.2 shall not be exceeded, subject to Improvement Condition 6.1 IMP3.

Table 2.2.3.2: Emission limits into sewer

Release Point	Parameter	Value	Monitoring Requirement	Notes
DP001	Suspended solids	450 mg/l	Bi-annual spot samples by independent organisation	Sampling and analysis by NI Water is acceptable
	Temperature	43°C		
	pH	>5 and <10		
	Flow	1500 m^3/24 hrs		
	Ammonia	100mg/l		
	COD	450 mg/l at pH 7		
	Fats, oil and grease	100 mg/l		

2.2.3.3 The Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emissions to water from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant. The Operator shall not allow any release that would cause a breach of an EQS established to implement Directive 2008/105/EC on Environmental Quality Standards in the field of Water Policy.

2.2.4 Emissions to Land

2.2.4.1 This Part (2.2.4) of the Permit shall not apply to emissions to groundwater.

2.2.4.2 There shall be no emission to land from the permitted installation.

2.2.5 Emissions to Groundwater

2.2.5.1 No emission from the Permitted Installation shall give rise to the introduction into groundwater of any hazardous substance or non-hazardous pollutant, as defined in the Groundwater Regulations (Northern Ireland) 2009.

2.2.5.2 For substances other than those in condition 2.2.5.1, the Operator shall use BAT to prevent or where that is not practicable to reduce emissions to groundwater from the Permitted Installation, provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.6 Odour

Generic

2.2.6.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce odorous emissions from the Permitted Installation, in particular by:

- limiting the use of odorous materials;
- restricting odorous activities;
- controlling the storage conditions of odorous materials;
- employing good housekeeping techniques to reduce the generation of odour;
- the extraction and appropriate treatment of room air;
- controlling processing parameters to minimise the generation of odour;
- optimising the performance of abatement systems;
- timely monitoring, inspection and maintenance; and

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.6.2 The Operator shall employ an approved Odour Management Plan, which includes contingencies in the event of a breakdown of abatement plant or processing equipment

2.2.6.3 The Operator shall clean up all spillages of Animal By-products without delay, (both internally and externally), and transfer them back into an appropriate part of the process or arrange for their disposal as soon as practicable.

2.2.6.4 All emissions to air from the installation shall be free from offensive odour as perceived by an Inspector outside of the installation boundary but the Operator shall not be taken to have breached this condition if it has used BAT to prevent, or where that is not practicable, to reduce, such odorous emissions.

Slaughtering and Processing

2.2.6.5 The Operator shall handle and store Animal By-products from the slaughtering and processing lines within suitably enclosed buildings.

2.3 Management

2.3.1 A copy of this Permit and those parts of the application referred to in this Permit shall be available, at all times, for reference by all staff carrying out work subject to the requirements of the Permit.

Training

2.3.2 The Permitted Installation shall be supervised by staff who are suitably trained and fully conversant with the requirements of this Permit.

2.3.3 All staff shall be fully conversant with those aspects of the Permit conditions, which are relevant to their duties and shall be provided with appropriate training and written operating instructions to enable them to carry out their duties.

2.3.4 The Operator shall maintain a record of the skills and training requirements for all staff whose tasks in relation to the Permitted Installation may have an impact on the environment and shall keep a record of all relevant training.

Maintenance

2.3.5 All plant and equipment used in operating the Permitted Installation shall be kept in good operating condition.

2.3.6 The Operator shall maintain a record of relevant plant and equipment covered by condition 2.3.5 and for such plant and equipment:

- A written or electronic maintenance programme; and
- Records of its maintenance.

Incidents and Complaints

2.3.7 The Operator shall maintain and implement written procedures for:

- Taking prompt remedial action, investigating and reporting actual or potential non compliance with the conditions of this permit;
- Investigating incidents, (including any malfunction, breakdown or failure of plant, equipment or techniques and near misses) and prompt implementation of appropriate actions; and
- Ensuring that detailed records are made of all such actions and investigations.

2.3.8 The Operator shall record and investigate complaints concerning the Permitted Installation's effects or alleged effects on the environment. The record shall give the date and time of complaint, nature of complaint, name of complainant (if given), a summary of any investigation and any actions taken.

2.4 Efficient use of Raw materials (including water)

2.4.1 Raw Material Selection

2.4.1.1 The Operator shall maintain the details of raw materials used in the installation submitted in the Application. The Operator shall review raw materials used in order to identify whether there are suitable alternatives which would reduce environmental impact at least every 3 years and submit a record of the review as part of the report referred to in condition 4.3.

2.4.1.2 The Operator shall implement and maintain a system which ensures that a record is made of the quantity, composition, origin and delivery time and date of all material (e.g. animal by-products, blood etc) that is received for treatment at the Permitted Installation.

2.4.2 Waste Minimisation Audit

2.4.2.1 The Operator shall carry out a waste minimisation audit at least every 3 years. The methodology used and an action plan for increasing the efficiency of the use of raw materials shall be submitted to the Chief Inspector as part of the report referred to in condition 4.3.

2.4.3 Water Use

2.4.3.1 The Operator shall carry out a review of water use, (water efficiency audit), at least every 3 years. The methodology used and an action plan for increasing the efficiency of the use of water shall be submitted to the Chief Inspector as part of the report referred to in condition 4.3.

2.4.3.2 The Operator shall ensure that incoming water use is directly measured and recorded.

2.5 Waste Handling and Storage

2.5.1 The Operator shall design, maintain and operate all facilities for the storage of waste on site to prevent, or where that is not possible to minimise releases to air, water or land during normal operation and to minimise the risk of accidental releases.

2.5.2 Waste materials specified in Table 2.5.1 shall only be stored on the site in the location and manner specified in that Table.

Table 2.5.1: Waste stored on site			
Description of Waste	**Location of Storage on Site**	**Manner of Storage**	**Storage Conditions**
Category II waste	L1 (Category II waste bay)	Sealed container	Slaughter line waste held in Category II waste bay in 'Green Lorry', changed daily
Category III waste	L2 (container area to rear of factory)	Sealed container	Category III waste container in container area to rear of factory.
Category III blood	L3 (Clean blood tank)	Refrigerated stainless steel tank	Blood held in tank for collection by Regal Processors
Category II blood	L1 (Category II waste bay)	Sealed container	Blood held in Category II waste bay in 'Green Lorry', changed daily
Screen discharge	L5 (ETP screen)	Plastic skip	Skip under ETP screen chute transferred to Category II waste storage as described above.
Liquid biological sludge	L6 (ETP sludge tank)	Steel tank	Sludge held in tank in effluent treatment plant area.
De-watered sludge	L7 (ETP)	Steel skip	Skip held in effluent treatment plant area.
Mucosa	L8 (rear of slaughter line)	Steel tank	Steel tank to rear of slaughter line.
Packaging waste	L9	Steel compactor	Storage area 2 at rear of processing building
Scrap metal / building waste	L10	Steel skip	Storage area 3 in service yard
Laboratory waste	L12 (laboratory)	Steel container	Technical office
Waste Oil	L13	Double skinned tank	Held in AST8 in service yard
Waste oil / interceptor debris	L14	Oil interceptors	DP004 interceptor
fluorescent tubes	L15	Steel skip	Machinery store
Digestive tract Material	L3 Blood Tank Area	Stainless Steel Tank with Carbon Filter	DTM held in tank for daily collection

2.6 Waste Recovery and Disposal

2.6.1 The Operator shall maintain the waste recovery and disposal table or description, (for materials removed from the Permitted Installation), that was submitted in the

Application. The Operator shall review the techniques used for recovery or disposal of each material at least every 3 years and justify these as the most appropriate. A record of the review shall be submitted to the Chief Inspector as part of the report referred to in condition 4.3.

2.6.2 The Operator shall maintain and implement a system that ensures a record is made of the quantity, composition, origin, destination, (including whether this is a recovery or disposal operation), and where relevant the removal date of any waste that is removed from the Permitted Installation.

2.6.3 The Operator shall only remove materials from the Permitted Installation for recovery or disposal using appropriately authorised carriers/facilities.

2.7 Energy Efficiency

2.7.1 The Operator shall maintain and update annually an energy management system that shall include, in particular, the monitoring of energy flows and targeting of areas for improving energy efficiency.

2.7.2 The Operator shall design, maintain and operate the permitted installation so as to secure energy efficiency. Energy efficiency shall be secured in particular by:

- ensuring that the appropriate operating and maintenance systems are in place;
- ensuring that all plant is adequately insulated to minimise energy loss or gain;
- ensuring that all appropriate containment methods, (e.g. seals and self-closing doors) are employed and maintained to minimise energy loss;
- employing appropriate basic controls, such as simple sensors and timers, to avoid unnecessary discharge of heated water or air;
- where building services constitute more than 5% of the total energy consumption of the installation, identifying and employing appropriate energy efficiency techniques; and
- by maintaining an energy efficiency plan which identifies energy saving techniques that are applicable to the activities and their associated environmental benefit and prioritises them.

2.8 Accident Prevention and Control

2.8.1 The operator shall operate in accordance with and maintain the accident management plan submitted or described in the Application. The plan shall be reviewed at least every 3 years or as soon as practicable after an accident, whichever is earlier. Where the plan is reviewed after an accident, the Chief Inspector must be notified of the results of the review within 2 months of its completion, otherwise a record of the review shall be submitted to the Chief Inspector as part of the report referred to in condition 4.3.

2.9 Noise and Vibration

2.9.1 The permitted installation shall be designed, operated and maintained so as to avoid reasonable cause for annoyance from noise or vibration, in particular by:

- equipment maintenance, (e.g. fans, pumps, motors, conveyors and mobile plant);
- use and maintenance of appropriate attenuation, (e.g. silencers, barriers, enclosures);
- timing and location of noisy activities and vehicle movements;
- periodic checking of noise emissions, either qualitatively or quantitatively; and
- maintenance of building fabric; and
- employing, where required by the Chief Inspector, an approved noise management plan;

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.9.2 Emergency generators/alarms/sirens/release valves shall only be tested between the hours of 10.00 and 17.00 Monday to Friday and not on any Public Holiday.

2.10 Monitoring

2.10.1 The Operator shall maintain and implement an emissions monitoring programme that ensures emissions are monitored from the specified points, for the parameters listed in and to the frequencies and methods described in Tables 2.2.1.2, 2.2.2.2, 2.2.3.2, and that the results of such monitoring are assessed. The programme shall ensure that monitoring is carried out under an appropriate range of operating conditions.

2.10.2 The Operator shall carry out the monitoring of the process operation detailed in Table S3 to the frequencies and methods described in that Table.

2.10.3 The Operator shall notify the Chief Inspector at least 14 days in advance of undertaking monitoring and/or spot sampling, where such notification has been requested in this Permit.

2.10.4 The Operator shall maintain records of all monitoring taken or carried out (this includes records of the taking and analysis of samples instrument measurements (periodic and continuous), calibrations, examinations, tests and surveys) and any assessment or evaluation made on the basis of such data.

2.10.5 Monitoring equipment, personnel and organisations used for the emissions monitoring programme in condition 2.10.1 of this Permit shall be covered by

- MCERTS certification or accreditation where available; or
- Accredited to EN ISO/IEC 17025 *"General requirements for the competence of testing and calibration laboratories"*;

unless otherwise agreed in writing with the Chief Inspector.

2.10.6 The Operator shall provide in accordance with BS EN 15259 *"Air quality – Measurement of stationary source emissions – Requirements for measurement sections and sites and for the measurement objective, plan and report"*

- a measurement plan prior to commencing an emissions test;

- safe and permanent means of access, (or as otherwise agreed in writing with the Chief Inspector), to enable sampling/monitoring to be carried out in relation to the emission points specified in Schedule 2 to this Permit, unless otherwise specified in that Schedule; and
- safe means of access to other sampling/monitoring points when required by the Chief Inspector.

2.10.7 The Operator shall carry out the on-going monitoring, as per condition 4.6, for the protection of ground and groundwater, unless otherwise agreed in writing by the Chief Inspector.

2.11 Closure and Decommissioning

2.11.1 The Operator shall maintain and operate the Permitted Installation so as to prevent or minimise any pollution risk, including the generation of waste, on closure and decommissioning in particular by:

- attention to the design of new plant or equipment;
- the maintenance of a record of any events which have, or might have, impacted on the condition of the site along with any further investigation or remediation work carried out.; and
- the maintenance of a site closure plan to demonstrate that the installation can be decommissioned avoiding any pollution risk and returning the site of operation to a satisfactory state.

2.11.2 Notwithstanding condition 2.11.1 of this Permit, the Operator shall carry out a full review of the Site Closure Plan at least every 3 years and a record of the review shall be submitted to the Chief Inspector as part of the report referred to in condition 4.3.

2.11.3 The site closure plan shall be implemented on final cessation or decommissioning of the permitted activities or part thereof.

2.11.4 The Operator shall give at least 30 days written notice to the Chief Inspector before implementing the site closure plan.

2.12 Multi-operator Installations

2.12.1 This is not a multi-operator installation.

3 Records

3.1 The Operator shall ensure that all records required to be made by this Permit and any other records made by it in relation to the operation of the Permitted Installation shall:

(i) be made available for inspection by the Chief Inspector at any reasonable time
(ii) be supplied to the Chief Inspector on demand and without charge
(iii) be legible

(iv) be made as soon as reasonably practicable
(v) indicate any amendments which have been made and shall include the original record wherever possible; and
(vi) be retained at the Permitted Installation, or other location agreed by the Chief Inspector in writing, for a minimum period of 4 years from the date when the records were made.

4 Reporting

4.1 One original and two copies of all reports and notifications required by this Permit, and notifications required by Regulation 16 of the PPC Regulations, shall be sent to the Chief Inspector at the address notified in writing to the Operator by the Chief Inspector.

4.2 The Operator shall, unless otherwise agreed in writing, submit reports of the monitoring and assessment carried out under Condition 2.10, as follows:
a) in respect of the parameters and emission points specified in Table S2 to Schedule 2 and Table S3 to Schedule 3;
b) for the reporting periods specified in Table S2 to Schedule 2 and Table S3 to Schedule 3 using the forms specified in Tables S4 to Schedule 4;
c) giving the information from such results and assessments as may be required by the forms specified in those Tables; and
d) to the Chief Inspector within 28 days of the end of the reporting period.

4.3 Submit an updated report on the matters listed in conditions 2.4.1.1, 2.4.2.1, 2.4.3.1, 2.6.1, 2.8.1, and 2.11.2 every 36 months.

4.4 The Operator shall, unless otherwise agreed in writing, submit on the following to the Chief Inspector by the 31 January each year:
(i) a report on the energy consumed over the previous calendar year, providing the information listed in Table S4.1 in Schedule 4;
(ii) a report of a review of fugitive emissions detailing such releases and the measures taken to reduce them;
(iii) where the Operator has an environmental management system applying to the Permitted Installation which encompasses annual improvement targets, a report of the previous year's progress against such targets;
(iv) a completed Pollution Inventory Reporting Form in respect of the operation of the Permitted Installation during the previous year in accordance with the instructions and definitions included in the Form;

4.5 The results of reviews of the system for protection of ground and groundwater referred to in condition 2.1.2 and any changes made shall be reported to the Chief Inspector within 1 month of the review or change.

5 Notifications

5.1 The Operator shall notify the Chief Inspector **without delay** of:-

a) the detection of an emission of any substance which exceeds any limit or criteria in this Permit specified in relation to the substance;
b) the detection of any fugitive emission which has caused, is causing or may cause significant pollution;
c) the detection of any malfunction, breakdown or failure of plant or techniques which has caused, is causing or has the potential to cause significant pollution;
d) any accident which has caused, is causing or has the potential to cause significant pollution; and
e) if the equipment used to continuously monitor or record any of the parameters specified in Tables 2.2.1.2, 2.2.2.2 and 2.2.3.2 become unavailable.

5.2 The Operator shall submit written confirmation to the Chief Inspector of any notification under condition 5.1 of this Permit by sending:-
a) the information listed in Part A of Schedule 1 to this Permit within 24 hours of such notification; and
b) the more detailed information listed in Part B of that Schedule as soon as practicable thereafter;
and such information shall be in accordance with that Schedule.

5.3 The Operator shall give written notification as soon as practicable, of any of the following:
a) permanent cessation of the operation of part or all of the Permitted Installation;
b) cessation of the operation of part or all of the Permitted Installation for a period, likely to exceed 1 year; and
c) resumption of the operation of part or all of the Permitted Installation after a cessation notified under 5.3(b).

5.4 The Operator shall notify the Chief Inspector, as soon as practicable, of any information concerning the state of the site which adds to that provided to the Chief Inspector as part of the Application or to that in the site condition report.

5.5 The Operator shall notify the following matters to the Chief Inspector, in writing, within 14 days of their occurrence:
(i) any change in the Operator's trading name, registered name or registered office address;
(ii) a change to any particulars of the Operator's ultimate holding company (including details of an ultimate holding company where the Operator has become a subsidiary);
or
(iii) any steps taken with a view to the Operator going into administration, entering into a company voluntary arrangement or being wound up.

5.6 Where the Operator has entered into a Climate Change Agreement with the Government, the Operator shall notify the Chief Inspector within one month of:
(i) a decision not to re-certify that Agreement;
(ii) a decision to terminate that Agreement;
(iii) a failure to comply with an annual target under that Agreement at the end of a target period.
or
(iv) any subsequent decision to re-certify such an Agreement.

5.8 Where the Operator uses PFO as fuel, the Operator shall notify the Chief Inspector prior to the following:

(i) using PFO as a fuel;

(ii) ceasing to use PFO as a fuel; or

changing PFO supplier(s).

6 Improvement Programme

6.1 The Operator shall complete the requirements specified in Table 6.1 by the date specified in that Table, and shall send written notification of the date of completion of each requirement to the Chief Inspector, at the Reporting Address, within 14 days of the completion of each such requirement.

Table 6.1.: Improvement Programme Requirements

Ref.	Requirement	Date
IMP1	Subject to pre-operation condition 1.4.6, provide appropriate training for all staff involved in the operation of the ETP. Records of all relevant training should be kept.	Within the timescale agreed with the Chief Inspector in the response to Condition 1.4.6
IMP2	Carry out a review of the site Odour Management Plan, and submit a report to NIEA of the findings including any identified improvements and timescales for carrying out proposed work. In particular, the operation of the upgraded ETP should be reviewed and the control measures used to minimise odour emissions.	Within 4 months of the changeover to the new ETP
IMP3	Carry out a review of the NI Water discharge consent to sewer and submit a report detailing the findings and any requirements for revising the consent	Prior to an increase in throughput likely to alter the emission limit requirements under the NI Water discharge consent.

7 Interpretation

7.1 In this Permit, the following expressions shall have the following meanings:

"Application" means the application for this Permit or to vary any condition of this permit together with any response to any notice served under the PPC Regulations and any operational change agreed under the conditions of this Permit.

"Animal By-products" means poultry, cattle, sheep, pigs, flesh, fat, bones, offal and blood arising from slaughterhouses and processing plants; whole animals that have fallen or been killed as part of a cull; animal faeces or urine; former food stuffs; and sludges from effluent treatment plants associated with food and drink facilities or as otherwise agreed in writing.

"Background concentration" means the same as "background quantity" as defined in paragraph 11 to Part 2 to Schedule1 of the PPC Regulations.

"BAT" means Best Available Techniques, as defined in Regulation 3 of the PPC Regulations.

"Biannual" means twice per year with at least five months between tests.

"Bottom ash" means ash which has fallen from the grate.

"Chief Inspector" means the person so appointed under Regulation 8 of the PPC Regulations.

"Dioxin and furans" means all polychlorinated dibenzo-p-dioxins and dibenzofuran listed in Annex I of Directive 2000/76/EC

"*Fluorinated (F) gases*" are hydrofluorocarbons (HFC), perfluorocarbons (PFC), sulphur hexafluoride (SF_6) and chlorofluorocarbons (CFC).

"Fugitive emission" means an emission from the Permitted Installation that is not from an emission point listed in Tables 2.2.1.1, 2.2.2.1 of this Permit, excluding emissions of odour and noise specifically controlled under sections 2.2.6 or section 2.9 of this Permit.

"Groundwater" means all water which is below the surface of the ground in the saturation zone and in direct contact with the soil and sub-soil.

"Inspector" means a person appointed under Regulation 8 of the PPC Regulations.

"I-TEF" means the international toxic equivalency factors established by the NATO.

"$L_{Aeq,T}$" means the equivalent continuous A-weighted sound pressure level in dB determined over time period T.

"$L_{A90,T}$"means the A-weighted sound pressure level in dB exceeded for 90% of the time period T.

"L_{AFmax}" means the maximum A-weighted sound level measurement in dB measured with a fast time weighting.

"MCERTS" means the Environment Agency's Monitoring Certification Scheme

"*Monitoring*" includes the taking and analysis of samples, instrumental measurements (periodic and continual), calibrations, examinations, tests and surveys.

"NATO" means the North Atlantic Treaty Organization.

"*Ozone Depleting Substances (ODS)*" are hydrobromofluorocarbons (HBFC) and hydrochlorofluorocarbons (HCFC).

"*PAH*" means Poly-cyclic aromatic hydrocarbon and comprises of Anthanthrene, Benzo[a]anthracene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Benzo[b]naph(2,1-d)thiophene, Benzo[c]phenanthrene, Benzo[ghi]perylene, Benzo[a]pyrene, Cholanthrene, Chrysene, Cyclopenta[c,d]pyrene, Dibenzo[ah]anthracene, Dibenzo[a,i]pyrene, Fluoranthene, Indo[1,2,3-cd]pyrene and Naphthalene.

"*PCB*" means Polychlorinated Biphenyl. Dioxin like PCBs are the non-ortho and mono-ortho PCBs listed in the table below;

Cogener	**WHO-TEF (1997/8)**		
	Humans/mammals	***Fish***	***Birds***
Non-ortho PCBs			
3,4,4',5 – TCB (81)	0.0001	0.0005	0.1
3,3',4,4' – TCB (77)	0.0001	0.0001	0.05
3,3',4,4',5 – PeCB (126)	0.1	0.005	0.1
3,3',4,4',5,5' – HxCB (169)	0.01	0.00005	0.001
Mono-ortho PCBs			
2,3,3',4,4' – PeCB (105)	0.0001	<0.000005	0.0001
2,3,4,4',5 – PeCB (114)	0.0005	<0.000005	0.0001
2,3',4,4',5 – PeCB (118)	0.0001	<0.000005	0.00001
2',3,4,4',5 – PeCB (123)	0.0001	<0.000005	0.00001
2,3,3',4,4',5 – HxCB (156)	0.0005	<0.000005	0.0001
2,3,3',4,4',5' – HxCB (157)	0.0005	<0.000005	0.0001
2,3',4,4',5,5' – HxCB (167)	0.00001	<0.000005	0.00001
2,3,3',4,4',5,5' – HpCB (189)	0.0001	<0.000005	0.00001

"*Permitted Installation*" means the activities and the limits to those activities described in Table 1.1.1 of this Permit.

"*PPC Regulations*" means the Pollution Prevention and Control Regulations (Northern Ireland) 2003 and words and expressions defined in the PPC Regulations shall have the same meanings when used in this Permit.

"WHO – TEF" means the toxic equivalent factor proposed by WHO which is multiplication factor relative to the toxic effect of 2,3,7,8 – TCDD.

"WHO – TEQ" means the toxic equivalent obtained by multiplying the mass determined with the corresponding WHO-TEF including PCDDs, PCDFs and PCBs.

"Spillage" means the presence of process materials outside the structures or vessels designed to hold them. For animal by products this includes any material on floors other than carcasses awaiting testing and processing, pelts or parts of carcasses removed for testing, and solid non-odourous material.

"*Staff*" includes employees, directors or other officers of the Operator, and any other person under the Operator's direct or indirect control, including contractors.

"*Year*" means calendar year ending 31 December.

7.2 Where a minimum limit is set for any emission parameter, references to exceeding the limit shall mean that the parameter shall not be less than that limit.

7.3 Unless otherwise stated, any references in this Permit to concentrations of substances in emissions into air means:

a) in relation to gases from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels, 11% dry for waste; and/or

b) in relation to gases from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with correction for water vapour content (dry).

7.4 Where any condition of this Permit refers to the whole or parts of different documents, in the event of any conflict between the wording of such documents, the wording of the document(s) with the most recent date shall prevail to the extent of such conflict.

Schedule 1

Confirmation of condition 5.1 notifications, in accordance with condition 5.2

This Schedule outlines the information that the Operator must provide to the Chief Inspector to satisfy condition 5.2 of this Permit.

Units of measurement used in information supplied under Part A and B requirements must be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the PPC Regulations.

Part A

Permit Number			
Name of Operator			
Location of Installation			
Location of the emission			
Time and date of the emission			
Substance(s) emitted	Media	Best estimate of the quantity or the rate of emission	Time during which the emission took place
Measures taken, or intended to be taken, to stop the emission			

Part B

Any more accurate information on the matters for notification under Part A	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment or harm which has been or may be caused by the incident	
The dates of any unauthorised emissions from the installation in the preceding 24 months	
Name*	
Position	
Signature	
Date	

[Note * Authorised to sign on behalf of Karro Food Ltd.]

Schedule 2

Reporting of monitoring data

Parameters for which reports shall be made, in accordance with condition 4.2 of this Permit, are listed below.

Table S2: Reporting of monitoring

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Suspended solids, pH, BOD, Visible oil & grease, Temperature	*DP004*	Annually	1/1/18
Suspended solids, pH, Flow, Ammonical nitrogen, COD, Fats, oil & grease, Temperature	*DP001*	Annually	1/1/18

Schedule 3

Forms to be used

Unless otherwise agreed in writing between the Chief Inspector and the Operator, the following forms are to be used for reports submitted to Chief Inspector.

Table S4:Reporting Forms	
Media/parameter/source/monitoring type	**Form Number**
Release Summary for Storm Drain Discharge	F1
Release Summary for discharge to sewer	F2

Form F1
RELEASES INTO DIRTY BURN
Release Summary for Storm Drain Discharge – DP004

Operator: KARRO LTD **Permit No. P0067/05A**

Year.....

Month	BOD 10 mg/l	Suspended Solids 50 mg/l	PH 6-9
Jan - Mar			
April- June			
July - Sept			
Oct - Dec			

Week	V.O.G None	Temp 25°C
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		

Week	V.O.G None	Temp 25°C
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		

Signed on behalf of the Operator .....

Dated .....

Form F2

RELEASES INTO SEWER

Monitoring Summary of discharges to sewer – DP001

Operator: Karro Ltd

Permit No. P0067/05A/V4: From _____ to _____

Parameter	Suspended Solids	Temperature	pH	Flow	COD	Fats, oil & grease	Ammonia
Limit	500 mg/l	43 °C	> 5 and < 10	1500 m^3 per day	450 mg /l	100 mg/l	100 mg/l
1st Biannual Sample							
2nd Biannual Sample							

Signed on behalf of the Operator .....
Dated .....

Schedule 4

Reporting of Energy Consumption

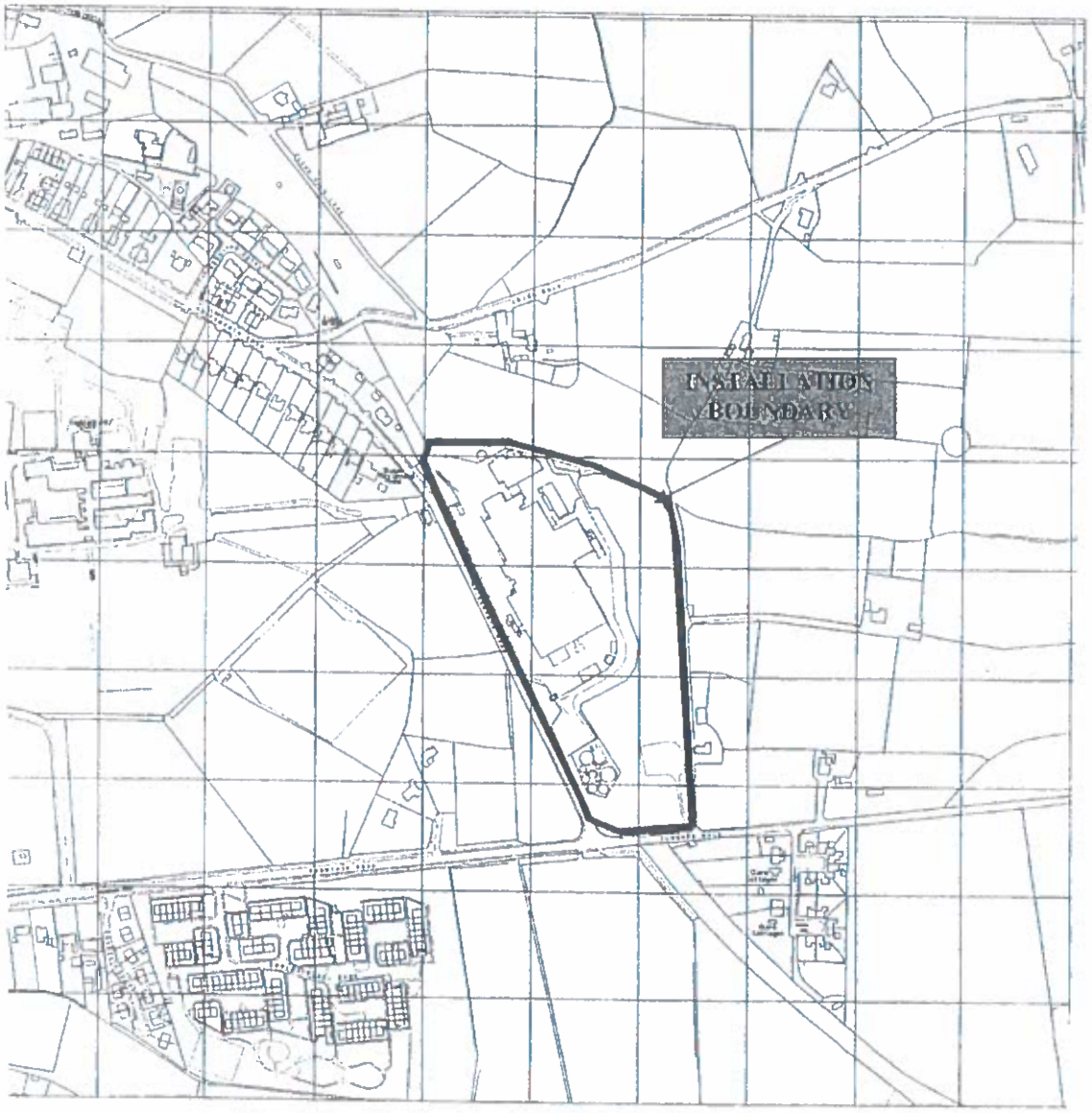
	Delivered MWh	Primary MWh	MWh / tonne**	% of total
Grid Electricity*				
Generated Electricity	-			
Gas				
Oil				
Waste				
Other				

* Specify conversion factor of primary source to delivered energy

** Provide information per MWe where appropriate, or define other reference.

Schedule 5

Site Plan



Reproduced from the Ordnance Survey map with the permission of OSNI.
Unauthorised reproduction infringes Crown Copyright