



ASiantaeth YR  
AMGYLCHEDD  
ENVIRONMENT  
AGENCY

## Variation Notice with introductory note

Pollution Prevention and Control Regulations 2000

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***St Merryn Meat Ltd  
Pengarnddu, Merthyr  
Tydfil CF48 2TA***

Variation Notice number

***BT6497***

Permit number

***BK1759***

**Asiantaeth Yr Amgylchedd / Environment Agency**

Rivers House, St Mellons Business Park, St Mellons, Cardiff CF3 0EY

**Variation BK1759/BT6497**

**Effective from 15<sup>th</sup> November 2002**

## Introductory note

**This introductory note does not form a part of the Variation Notice.**

The following Notice is issued under Regulation 17 of The Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No. 1973 (as amended) (the Regulations) to vary the conditions of a Permit issued under the Regulations to operate an installation.

The Notice comprises Schedule 1 containing conditions to be deleted, Schedule 2 conditions to be amended and Schedule 3 conditions to be added. The Notice is subject to the express conditions set out in Schedules 1 to 3.

The Permit, as amended by this Variation Notice, contains conditions which have to be complied with. It should be noted that aspects of the operation of the installation which are not regulated by those conditions are subject to the condition implied by Regulation 12(10) of the PPC 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.

**Brief description of the changes introduced by this variation notice.**

The improvement program is amended in its entirety, and replaced with a new version, to take into account the fact that :-

- a.) Requirement references 9.2 and 9.6 have now been complied with.
- b.) Requirement references 9.3, 9.7, 9.9 and 9.10 now have amended dates for compliance.
- c.) Requirement references 9.8, 9.11, 9.12 and 9.13 no longer have strict compliance dates, but instead have to be completed within a given time period before the on-site incinerator operates (in the case of items 9.8 and 9.13), or within a given time period following the commissioning of the incinerator (in the case of item 9.11), or the commissioning of an Ozone sterilisation trial (in the case of item 9.12.)
- d.) Requirement references 9.4 and 9.5 have been amended, and also have altered dates for compliance.

These changes will ensure that :-

- i.) Completed items are acknowledged as such;
- ii.) Items which have been subject to repeated extensions for completion are now given a single date for completion, beyond which no further extensions will be granted by the Agency;
- iii.) The uncertainties regarding the use of the incinerator at an unspecified future date do not lead to the company requesting continuous extensions to meet an arbitrary deadline for compliance;
- iv.) The uncertainties regarding the future use of ozonisation as a sterilisation method at an unspecified future date do not lead to the company requesting continuous extensions to meet an arbitrary deadline for compliance;
- v.) The continued uncertainty over the suitability of the current arrangements for site drainage is addressed, and appropriate improvements made in order to resolve the ongoing issues associated with site drainage arrangements.

### Description of installation

The purpose of the installation is to provide packaged cuts of meat for the retail trade. The carcasses are either produced in the on-site slaughterhouse facility or brought in from other St Merryn sites. In addition to the main meat products, offals, hides and fleeces, are produced as by-products from the process. The slaughterhouse processes cattle and lamb; additionally the meat processing area is able to package pig and poultry products brought in from other sites.

The installation is situated on the Pengarnddu Industrial Estate, Dowlais, Merthyr Tydfil. This is a mixed industrial/retail park area. The main residential area of Dowlais is approx. 1 km from the site.

The site employs approximately 1000 people. The main areas of the site operate continuously manned on a shift basis. The slaughterhouse, however, operates 10 hours a day 5 days a week, with occasional weekend working as and when demand dictates.

Inedible animal waste products are currently disposed of off-site, as the on-site incinerator has not yet been commissioned. The incinerator includes a waste heat boiler to produce steam for the installation. Steam is additionally supplied from 2 small gas fired boilers.

Process water from the installation is abstracted from 3 on-site boreholes. Water is purified in a small treatment plant prior to use in the installation.

The major use of process water at the installation is for the cleaning and washing of areas to meet hygiene requirements. Dosing chemicals are mixed with the process water in a ring main system, which serves the process areas.

A majority of the effluent from the installation is treated in an on-site effluent treatment facility before being discharged to public sewer and further treatment at the Cilfynydd sewage treatment works. Surface water from car parks, roofs etc is discharged via oil interceptors to the Nant Carno.

#### Slaughterhouse:

This has a design throughput of 300 head of cattle and 2400 head of lamb per day. The area comprises lairage for the receipt of animals from market or farm, two slaughter lines, one for cattle and one for lamb for the slaughter and processing of the animals. Offal, head, hooves, hides are removed, to produce the carcass. Certain items such as cattle heads and spinal cord is designated as specified risk material, this is dyed with indelible ink before being stored for incineration. Carcasses are then stored in chilled storage rooms prior to progressing to the meat processing area. Hides are preserved and stored in an on-site hide store either by using salt or ice.

#### Incinerator:

The incinerator has a capacity of 990 kg/hour, a weighscale and interlock system prevents this capacity being exceeded. The incinerator is of a stepped hearth design with a secondary combustion chamber to ensure a gas residence time in excess of 2 seconds at a temperature in excess of 850 °C. The incinerator is fired on natural gas using low NO<sub>x</sub> design burners. Flue gases from the incinerator are passed through a waste heat boiler, used to generate steam, before being discharged to atmosphere via the main 16m stack. In the event of problems the 16m by-pass stack can be used. Both the main and by-pass stack share a common wind shield.

Wastes for incineration are stored in a purpose built chilled storage room, air from this storage area is used as combustion air for the incinerator.

Ash from the incinerator is removed and stored in sealed skips and allowed to cool before disposal off-site.

#### Meat Processing:

Carcasses from the slaughter lines or from off-site are deboned, and then cut up to produce various joints and cuts of meat. These are then sealed in various designs of retail packs depending on customer requirements.

The meat processing area is air conditioned at a temperature of between 4 to 8 C for hygiene reasons. The packaged cuts of meat are then dispatched off-site in refrigerated trailers or vehicles.

#### Ancillary Services:

Steam is used on site to produce hot water, used for the sterilizing of knives and other equipment used on the site. This is currently produced from two small 3.65 MW boilers, although will be largely produced from the heat exchange boiler served by the incinerator when this is commissioned.

The installation has a number of refrigeration and air-conditioning units on the site. The use of insulated construction materials and self-closing doors on the chilled storage areas helps minimise energy use in this area.

#### Other PPC Permits relating to this installation

Permit holder	Permit Number	Date of Issue
None	Not applicable	Not applicable

#### Superseded Licenses/Consents/Authorisations relating to this installation

St Merryn Meat Ltd (Part B Incinerator Authorisation).	PG5/3(95)1/00	15/12/00
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## Talking to us

If you contact the Agency about this Permit please quote the Permit Number.

The Operator should use the Emergency Hotline telephone number (0800 80 70 60) or any other number notified to it to give a notification under condition 5.1.1 of the Permit.

## Confidentiality

The Permit/Variation requires the Operator to provide information to the Agency. The Agency will place the information onto the public registers in accordance with the requirements of the PPC Regulations. If the Operator considers that any information provided is commercially confidential, it may apply to the Agency to have such information withheld from the register as provided in the PPC Regulations. To enable the Agency to determine whether the information is commercially confidential, the Operator should clearly identify the information in question and should specify clear and precise reasons.

## Variations to the permit

This Permit may be varied in the future. The Status Log within the Introductory Note to any such variation will include summary details of the Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

## Surrender of the permit

Before this Permit can be wholly or partially surrendered, an application to surrender the Permit has to be made. For the applicant to be successful, they would have to be able to demonstrate to the Agency, in accordance with Regulation 19 of the PPC Regulations, that there is no pollution risk and that no further steps are required to return the site to a satisfactory state.

## Transfer of the permit or part of the permit

Before the Permit can be wholly or partially transferred to another person, a joint application to transfer the Permit has to be made by both the existing and proposed holders, in accordance with Regulation 18 of the PPC Regulations. A transfer will be allowed unless the Agency considers that the proposed holder will not be the person who will have control over the operation of the installation or will not ensure compliance with the conditions of the transferred Permit. If the Permit authorises the carrying out of a specified waste management activity, then there is a further requirement that the transferee is considered to be a "fit and proper person" to carry out that activity.

## Status Log

Detail	Date	Comment
Application BK1759	Received 22/03/01	
Response to request for information (1)	Request dated 18/05/01	Responses dated 05/06/01
Response to request for information (2)	Request dated 04/06/01	Response dated 05/06/01
Response to request for information (3)	Request dated 06/07/01	Response dated 23/07/01
Permit BK1759	Determined 10/08/01	Permit Issued
Variation BT6497	Determined 12/11/02	

*End of introductory Note*

Environment Agency Variation BK1759/BT6497

Effective from 15<sup>th</sup> November 2002

**Variation Notice**

Pollution Prevention and Control  
(England and Wales) Regulations 2000



**ENVIRONMENT  
AGENCY**

## Variation Notice

Permit number

**BK1759**

Variation Notice number

**BT 6497**

The Environment Agency in exercise of its powers under Regulation 17 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I. 2000 No. 1973) (as amended), hereby varies the Permit issued on 10<sup>th</sup> August 2001 and held by you.

**St Merryn Meat Ltd ("the Operator"),**

whose Registered Office is

**St Merryn Food Group**

**Victoria Business Park**

**Roche**

**Cornwall**

**PL26 8LX**

**Company registration number 2169077**

which relates to the operation of the Installation at

**St Merryn Meat Ltd**

**Pengarnddu Industrial Estate**

**Dowlais Top**

**Merthyr Tydfil CF48 2TA**

to the extent set out in Schedules 1 to 3 of this Variation Notice.

This Notice shall take effect from 15<sup>th</sup> November 2002.

Signed

**D H Williams**

Authorised to sign on behalf of the Environment Agency

Date

**12 November 2002**

**Environment Agency Variation BK1759/BT6497**

Effective from 15<sup>th</sup> November 2002



## **SCHEDULE 1 - CONDITIONS TO BE DELETED**

1. None.

## **SCHEDULE 2 - CONDITIONS TO BE AMENDED**

2. Condition 9.1.1, Table 9.1.1 to be amended to:

Reference	Requirement	Date
9.1	The Operator shall, within 36 months of the issue of this Permit, submit a report on potential environmental improvements to the Permitted Installation. For each of the subject areas identified in Section 2 of the appropriate technical guidance, the report shall assess the costs and benefits of alternative techniques that may provide environmental improvement. This shall include, but not be limited to, those techniques listed in guidance. The methodologies used should be based on those given in Agency guidance note H1 and should justify, against the BAT criteria, where potential improvements are not planned to be implemented. As part of their management system, the Operator shall submit an updated report every 36 months	31/07/04
9.2	A report shall be sent to the Agency on establishing an Environmental Management System having regard to section 2.1 of the relevant IPPC Sectoral or other Technical Guidance. The report shall include any proposals to implement such a programme.	Completed
9.3	Fugitive emissions shall be reviewed on an annual basis and a summary report on this review shall be sent to the Agency detailing such releases and the measures taken to reduce them.	31/12/02 for first report
9.4	<p>The Operator shall undertake a full review of the current effluent disposal arrangements, in order to consider :-</p> <p>a.) Steps necessary to ensure that the effluent enters the main sewer from release point S1 as a continuous gravity flow and NOT a pulsed flow release;</p> <p>b.) Steps necessary to ensure that the effluent meets the discharge limits specified in permit table 6.4.2 entitled 'Emission limits to sewer.'</p> <p>The findings of the review shall be written up as a report, and this shall be forwarded to the Agency.</p>	31/01/2003
9.5	The Operator shall install and implement the solution(s) identified in improvement item 9.4 above.	31/04/2003
9.6	The Operator to complete a complete hazard and risk assessment for the installation as described in Section 2.8 of the IPPC General Sector Guidance IPPC S0.01 version 2, a copy of the assessment to be supplied to the Agency	Completed
9.7	The Operator shall assess the requirement to use odour masking agents or filtration units on effluent plant storage tanks.	31/01/03

9.8	The Operator shall put forward proposals for an environmental monitoring programme, to monitor releases from the proposed on site incineration process.	At least two months prior to the commissioning of the incinerator
9.9	The Operator shall prepare an updated Site Closure Plan, which details the actions to be taken on the definitive cessation of operations to avoid any pollution risk and to return the site of the installation to a satisfactory state. The plan shall be reviewed and updated as necessary on a bi-annual basis.	31/12/02 for first report.
9.10	The Operator shall undertake a full noise survey according to procedures laid down in BS7445:1991 Description and Measurement of Environmental Noise, and BS4142 Method for Rating Industrial Noise Affecting Mixed Residential and Industrial Areas, over a period of time when normal manufacturing processes are being carried out. The specification of the survey shall be agreed with the Agency prior to undertaking this work. A report detailing the findings of the survey to be sent to the Agency at the Reporting Address.	31/1/03
9.11	The Operator shall carry out a BAT review of the incinerator stack height. This review to include any relevant monitoring and environmental data obtained.	8 months after the date on which items 9.9 and 9.13 are produced.
9.12	The Operator shall report on the effectiveness of using ozonised water as a replacement for sanitiser chemicals at the Installation. A copy of the report shall be sent to the Agency.	Within three months of the commencement of any ozonisation trials.
9.13	The Operator shall: a) provide at detailed commissioning plan for the on site incineration process, including details for the monitoring and reporting of releases during the commissioning phase, b) provide details of the planned maintenance schedule for the incinerator.	At least 2 months prior to the commissioning of the on site incineration process.

### **SCHEDULE 3 - CONDITIONS TO BE ADDED**

3. None.