



Permit with introductory note

**Environmental Permitting (England and Wales)
Regulations 2016 (as Amended)**

Installation address

**Multi-Color Cwmbran UK Ltd
Christopher Grey Court,
Lakeside
Llantarnam Industrial Park
Cwmbran
NP44 3SE**

Permit Reference: TCBC EP A29



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Contact Details:

Torfaen County Borough Council
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Introductory note

This introductory note does not form a part of the Permit

The following Permit is issued under Regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016 (“the EP Regulations”) to operate an installation carrying out one or more of the activities listed in Part B to Schedule 1 of those Regulations, to the extent authorised by the Permit.

The Permit includes conditions that have to be complied with. It should be noted that aspects of the operation of the installation which are not regulated by specific conditions are subject to the Best Available Techniques condition placed in the permit, that the Operator shall use the best available techniques for preventing or, where that is not practical, reducing emissions from the installation.

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

Brief description of the installation regulated by this permit

The main printing activities undertaken at the Installation, using solvent-based inks, are within rotogravure processes, using the Cerutti Rotogravure R960/2 printing lines and the Nilpeter FA2 printing lines. The presses are used to print pressure-sensitive labels primarily for the drinks industry. The emissions from the rotogravure are treated in a, Brofind IBT’ 3 canister, gas-fired, regenerative, thermal oxidiser ("RTO"). The RTO also provides support heat to a 0.7MW gas-fired boiler, the purpose of which is to supply hot thermal oil to the rotogravure presses where it is used as the "Drying" medium for the solvent based inks.

Other printing activities undertaken at the installation involve the use of acrylic-based, UV-cured inks and use screen, flexographic, digital and web-offset processes.

A number of ancillary activities are undertaken at the facility including mixing of solvents, mixing of printing inks and adhesives, recovery of solvents from waste, cleaning of printing press components, cutting and slitting of labels, the manufacture of Plates and screens.

Superseded Licences/Consents/Authorisations relating to this installation		
Holder	Reference Number	Date of Issue
Spear Europe Ltd	TCBC EPA B29	23rd January 2009
Spear Europe Ltd	TCBC EP A29	31 August 2011
Multi Color Cwmbran UK Ltd	TCBC EP A29	23 August 2018

Confidentiality

The Permit requires the Operator to provide information to Torfaen County Borough Council. The Council will place the information onto the public registers in accordance with the requirements of the EP Regulations. If the Operator considers that any information provided is commercially confidential, it may apply to the Torfaen County Borough Council to have such information withheld from the register as provided in the EP Regulations. To enable Torfaen County Borough Council to determine whether the



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information is commercially confidential, the Operator should clearly identify the information in question and should specify clear and precise reasons.

Variations to the permit

Your Attention is drawn to the Variation Notification Procedure condition in the permit. This Permit may be varied in the future. If at any time the activity or any aspect of the activity regulated by the following conditions changes such that the conditions no longer reflect the activity and require alteration, the Regulator should be contacted.

Surrender of the permit

Where an Operator intends to cease the operation of an installation (in whole or in part) the regulator should be informed in writing, such notification must include the information specified in Regulation 24 for a Part B, Part A2 of Section 5.1 or mobile plant permit, within Schedule I and in accordance with Regulation 25 of the EP Regulations for all other Installations (Part A2).

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 21 of the EP Regulations. A transfer will be allowed unless the Authority 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.

Responsibility under workplace health and safety legislation

This Permit is given in relation to the requirements of the EP regulations. It must not be taken to replace any responsibilities you may have under Workplace Health and Safety legislation.

Appeal against permit conditions

Anyone who is aggrieved by the conditions attached to a Permit can appeal to the Appropriate Authority; (Secretary of State for the Environment, Food and Rural Affairs, in England and the Welsh Ministers in Wales) Appeals must be made in accordance with the requirements of Regulation 31 and Schedule 6 of the EP Regulations.

Appeals should be received by the Secretary of State for Environment, Food and Rural Affairs or the Welsh Ministers at the following addresses:

The Planning Inspectorate
Environment Team, Major and Specialist
Casework
Room 4/04 Kite Wing
Temple Quay House
2 The Square
Temple Quay
Bristol BS1 6PN

Or for appeals in Wales:

The Planning Inspectorate
Crown Buildings
Cathays Park
CARDIFF
CF10 3NQ

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Please Note

An appeal brought under Regulation 31 (2) (b), (c) and Schedule 6, in relation to the conditions in a permit will not suspend the effect of the conditions appealed against; the conditions must still be complied with.

In determining an appeal against one or more conditions, the Act allows the Secretary of State in addition to quash any of the other conditions not subject to the appeal and to direct the local authority either to vary any of these other conditions or to add new conditions.

End of introductory note



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**Permit issued under the Environmental Permitting
(England and Wales) Regulations 2016 (as Amended)**

Permit

Permit Number: TCBC EP A29

Torfaen County Borough Council (the Regulator) in exercise of its powers under Regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016 hereby permits:

Multi-Color Cwmbran UK Ltd (“the operator”).

Whose registered office is:

**Christopher Grey Court
Lakeside
Llantarnam Industrial Park
Cwmbran
NP44 3SE**

Company Number: 03710253

To operate an installation at:

**Multi-Color Cwmbran UK Ltd.
Christopher Grey Court
Lakeside
Llantarnam Industrial Park
Cwmbran
NP44 3SE**

to the extent authorised by and subject to the conditions of this Permit and within the boundary shown identified in Condition 3.2.

Signed



Peter Oates, Senior Environmental Health Officer
Authorised to sign on behalf of
Torfaen County Borough Council

Dated: **06 May 2022**



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CONDITIONS

1. Variation Notification Procedure

1.1 If the operator proposes to make a change in operation of the installation, he must, at least 14 days before making the change, notify the regulator in writing. The notification must contain a description of the proposed change in operation. It is not necessary to make such a notification if an application to vary this permit has been made and the application contains a description of the proposed change. In this condition 'change in operation' means a change in the nature or functioning, or an extension, of the installation, which may have consequences for the environment.

2. Best Available Technique

2.1 The best available techniques shall be used to prevent or, where that is not practicable, reduce emissions from the installation in relation to any aspect of the operation of the installation which is not regulated by any other condition of this permit.

3. The permitted Installation

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

Table A			
Activities under Schedule 1 of the Regulations/Associated Activity	Description of specified activity	Schedule 1 activity Reference (if Applicable)	Limits of specified activity
Storage and Handling of raw materials	Unloading, transport and storage of inks, solvents and printing substrates. Delivery and storage of other minor raw materials.	Directly associated activity	Receipt and storage of raw materials to produce printed labels. Storage within tanks or bunded bulk storage areas.
Formulation and dispensing of coating materials (greater than 100tpa)	Formulation of coatings and inks within the solvent inks room indicated on the plan. Formulation and dispensing of coatings using automated Rexon colour point dispensing system indicated on plan	Chapter 6, Section 6.5 Part B	Within the solvent inks and Rexon room only.
Formulation and dispensing of solvent based adhesives	Formulation and dispensing of solvent based adhesives using K2M equipment as indicated in the plan	Chapter 6, Section 6.5 Part B	Within the K2M area only
Surface treating, substances, objects or products using organic solvents, in particular for dressing, printing, coating, degreasing, waterproofing, sizing, painting or impregnating, in a plant with a consumption capacity of more than 200 tonnes per year.	Using Cerutti Rotogravure R960/2 printing lines and Nilpeter FA2 press process	Chapter 6, Section 6.4 A(2) (a).	Presses and plant listed in schedule A only.
Cleaning of Rotogravure press components	Cleaning of components using ethyl acetate within the Renzmann Room	Directly associated activity	Renzmann room.



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Cleaning of UV tooling	Using solvent based materials withing the UV cleaning and recovery room	Directly associated activity	UV cleaning and recovery room
VOC abatement plant	One regenerative thermal oxidiser.	Directly associated activity	From presses, Renzmann room and UV cleaning and recovery room, extraction to final discharge stacks.
Hot air drying system	Heating of thermal oil in a boiler with a net rated thermal output of 0.47MW. Boiler provided with support heat from the RTO	Directly associated activity	From boiler and associated pipes and ductwork
Recovery of waste solvent	Vacuum distillation	Directly associated activity	Solvent recovery unit
Screen and flexographic printing.	On six presses	Directly associated activity	Presses and plant listed in schedule A only.
Digital Printing and enhancement	On three presses	Directly associated activity	Presses and plant listed in schedule A only
Web offset printing	On one press	Directly associated activity	Presses and plant listed in schedule A only
Making of flexographic plates.	On Mekrom flexographic plate making facility.	Directly associated activity	Screen room
Waste handling and storage	The storage of waste inks and solvents prior to disposal and recovery	Directly associated activity	Storage in bunded areas only pending recovery or disposal

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- 3.2 The operator is authorised to carry out the activities and/or associated activities as specified and within the boundary shown edged in red on the plan below.





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4 Operational Matters

Management techniques and control

- 4.1 The permitted installation shall maintain and update its Environmental Management System (EMS) and subject to the conditions of this permit, shall be undertaken and followed in full.
- 4.2 All plant, equipment and technical means used in operating the permitted installation shall be maintained in good operating condition
- 4.3 The permitted installation shall be supervised by staff that are suitably trained and fully conversant with the requirements of this permit.
- 4.4 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.
- 4.5 All staff shall be fully conversant with those aspects of the permit conditions that are relevant to their duties and shall be provided with appropriate training and written operating instructions to enable them to carry out their duties.

Raw Materials (including Water)

- 4.6 The solvent and ink IBC and drum containers shall be located and stored in a covered, bunded secure area and such that risk of puncture of the containers is minimised.
- 4.7 Materials detailed in Table C shall be stored in the location and manner specified in that table.

Table C			
Material	Location of storage on site	Description of storage on site	Storage conditions
Solvents	Within the tank farm or in 1000lt IBC containers or in drums in the dedicated solvent storage area.	Secure storage areas bunded or twin walled tanks.,	Within the tank farm, or in sealed drums or IBC's.
Mineral oils	Oil store	Fully bunded	Sealed containers
Inks	Within the dedicated solvent storage areas.	Secure storage areas bunded.	Sealed containers
Adhesives	Within the adhesive mixing station K2M	Secure storage areas bunded.	Sealed containers

- 4.8 The delivery, handling, transport and storage of odorous, corrosive or solvent/oil based materials associated with the process shall be carried out in such a manner so as to prevent releases into the environment.



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Groundwater Protection

- 4.8 The Permitted Installation shall, subject to the conditions of this permit, be controlled as described in the documentation specified in Table D or as otherwise agreed in writing by the Regulator.

Table D Groundwater Protection		
Description	Parts	Date received
Variation Application	The response given in variation application supporting document Section 2.2.2	2 March 2022

Waste Handling and Storage

- 4.10 The Operator shall subject to the conditions of this Permit, handle and store waste as described in the documentation specified in Table E or as otherwise agreed in writing with the Regulator.

Table E Waste handling and storage		
Description	Parts	Date received
Variation Application	The response given in variation application supporting document Section 2.6	2 March 2022
Variation Application and Environmental Management System	BS EN ISO14001:2015 variation application supporting document appendix H	2 March 2022



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4.11 Waste materials specified in Table F below shall only be stored on site in the location and manner specified in that table.

Table F Waste stored on site			
Description of Waste	Location of storage on site	Manner of Storage	Storage conditions
Solvents	Secure Yard	Within 205 litre and 25 litre drums on an above ground containment sump	Until such time as there is a viable quantity for recovery or disposal.
Inks	Secure Yard	Within 205 litre drums on an above ground containment sump	Until such time as there is an economically viable quantity for recovery or disposal.
Sludges	Secure Yard	Within 205 litre drums on an above ground containment sump	Until such time as there is an economically viable quantity for recovery or disposal.
Small solvent/ink Containers	Secure Yard	Stored or crushed and placed in IBCs	Until such time as there is sufficient quantity for recovery or disposal to landfill
205 litre solvent/ink Drums	Secure Yard	On above ground containment sump	Until such time as they can be reused or disposed to metal recycling facility
Semi-solid Waste 'Still bottom waste'	Secure Yard	Under a water barrier within 205l drums on an above ground containment sump	Until such time there is sufficient quantity for disposal to landfill or reuse in an energy for waste scheme
Rags and Wipes	Near the presses which are emptied on a daily basis and then the secure yard	Within plastic bags in self closing bins at the presses and within a dedicated metal bunded storage area	Until such time there is sufficient quantity for disposal to landfill
Substrate and waste product (rejects)	Unless used for machine setup, within secure yard	On dedicated trailer	Until such time they are sent for recycling
Reel Offcuts and Banding	Within Bulk bins at point of production then following compaction, within secure yard	Compacted into suitable container.	Until such time as a container can be sent to a specialist waste transfer station for sorting and reuse.
Pallets	Within secure yard	Dedicated container	Until such time they are sent to specialist contractor for repair or chipping or reuse
Cardboard	Within secure yard	Dedicated container	Until such time as it is sent for baling and recycling
General Waste	Within Secure Yard	Small quantities of glass metals and waste electrical equipment in dedicated container	Until such time as it is sent for recycling

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4.12

The Operator shall subject to the conditions of this Permit, use energy as described in the documentation specified in Table G or as otherwise agreed in writing with the Regulator.

Table G Energy Efficiency		
Description	Parts	Date received
Variation Application	The response given in variation application supporting document 2.8 and appendix G	2 March 2022

4.13 The Operator shall either have an energy management plan, which shall be updated annually, or be part of a Climate Change Levy Agreement.

Accident Prevention and Control

4.14 The Operator shall subject to the conditions of this Permit, prevent and limit the consequences of accidents as described in the documentation specified in Table H or as otherwise agreed in writing with the Regulator.

Table H Accident Prevention and Control		
Description	Parts	Date received
Variation Application	The response given in variation application supporting document, Section 2.9 and Appendix G of the associated site report ECL document P472/R002	2 March 2022
EMS 001	EWI 008, 010, 011, 012	8 th May 2010

4.15 The EMS Doc ref EWI 004 Bulk Tanker Off Loading Operations shall be followed at all times for bulk solvent deliveries.

4.16 All bulk liquid ink deliveries and transfers shall be supervised. The written procedure for ink transfer and distribution, EMS document EWI 005, shall be followed during all deliveries and handling operations.

4.17 All bunds where not covered or fitted with level devices within catchment sumps, shall be inspected monthly and emptied as determined by that inspection. EWI 007

Noise and Vibration

4.18 The Operator shall subject to the conditions of this Permit, control noise and vibration as described in the documentation specified in Table I or as otherwise agreed in writing with the Regulator.

Table I Noise and Vibration		
Description	Parts	Date received
Variation Application	The response given in variation application supporting document, Section 2.10	2 March 2022



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Monitoring

- 4.19 The Operator shall subject to the conditions of this Permit, carry out, evaluate and assess monitoring as described in the documentation in Table J or as otherwise agreed in writing with the Regulator.

Table J Monitoring		
Description	Parts	Date received
Variation Application	The response given in variation application supporting document, Section 2.11	2 March 2022

- 4.20 Sampling points, platforms and access shall comply with all aspects of the Guidance provided by the agency in Technical Guidance Document (Monitoring) M1.

Decommissioning

- 4.21 The Operator shall subject to the conditions of this Permit, make provision for decommissioning the installation as described in the documentation specified in Table K or as otherwise agreed in writing with the Regulator.

Table K Decommissioning		
Description	Parts	Date received
Variation Application	The response given in variation application supporting document, Section 2.12	2 March 2022

- 4.22 A site closure plan shall be prepared and maintained such that, upon definitive cessation of activities, the site can be decommissioned safely and that pollution risks from the site are minimised.

Multi-operator installations

- 4.23 This is not a multi-operator installation. Any transfer ownership/management of an activity within the installation must comply with requirements of Regulation 21 of the Environmental Permitting (England and Wales) Regulations 2016.

5. Records

- 5.1 A record (a "Specified Record") shall be made of: -

- A** any malfunction, breakdown or failure of plant, equipment or techniques (including downtime and any short term and long term measures) that may have, has had, or might have had an effect on the environmental performance of the Permitted Installation. These records shall be kept in a log maintained for that purpose;
- B** all monitoring and sampling taken or carried out and any assessment or evaluation made on the basis of such data;
- C** other Specified Records for the installation/sector;

- 5.2 There shall be made available for inspection by the Regulator at any reasonable time;



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- A** Specified Records;
 - B** any other records made by the Operator in relation to the operation of the Permitted Installation (“Other Records”)
- 5.3 A copy of any Specified or Other Records shall be supplied to the Regulator on demand and without charge.
- 5.4 Specified Records and Other Records shall:-
 - A** be legible;
 - B** be made as soon as reasonably practicable; and
 - C** indicate any amendments which have been made and shall include the original wherever possible.
- 5.5 Specified Records and Other Records shall be retained for a minimum period of 2 years from the date the record was made.
- 5.6 For all waste received at or produced from the Permitted Installation, the Operator shall record (and shall retain such records for a minimum of 2 years)
 - A** its composition, or as appropriate, description;
 - B** the best estimate of the quantity produced;
 - C** its disposal routes (including consignment notes); and
 - D** the best estimate of the quantity sent for recovery or diversion
- 5.7 A record shall be made at the Permitted Installation of any complaints concerning the installation’s effect on the environment. The record shall give the date of complaint, a summary of any investigation and the results of such investigation. Such records shall be made in a log kept for this purpose

6. Reporting

- 6.1 All volatile organic solvents and solvent containing materials obtained in connection with the prescribed installation shall be recorded in accordance with the “Determination of consumption” in Appendix 2 of Sector Guidance Note IPPC SG6. These figures shall be submitted to the Regulator annually. *(To make the determination, a knowledge of the organic solvent content of all products purchased will be needed.)*
- 6.2 The fugitive emission limits specified in condition 8.3 shall be determined within 6 months of the date of this Permit and on any subsequent change in activities likely to alter the fugitive emissions.
- 6.3 All reports and notifications required by this Permit or by The European Pollutant Release and Transfer Register (E-PRTR) shall be sent to the regulator at the address in the introductory note to this permit. You must respond to any Information Notice served on you for the purposes of complying with your obligation to report your pollutant releases and off-site waste transfers pursuant to the directly applicable EU duty in accordance with Article 5 of EC Regulation No 166/2006 concerning the establishment of a European Pollutant Release and Transfer



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Register. As a permit condition, your failure to respond in accordance with such annual E-PRTR Information Notice will constitute a breach of your permit.

6.4 Reports relating to extractive monitoring shall be provided within 8 weeks of sampling.

7. Notifications

7.1 The Operator shall notify the Regulator (or for emissions to water the Natural Resources Wales Hotline number) **without unreasonable 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 or may cause pollution unless the quantity emitted is so trivial that it would be incapable of causing pollution.
- c. the detection of any malfunction, breakdown or failure of plant or techniques which has caused or may have the potential to cause pollution; and
- d. any accident which has caused or may have the potential to cause pollution.

7.2 The Operator shall give written notification as soon as practicable, of any of the following;

- a. permanent cessation of the operation of any part or all of the Permitted Installation;
- b. cessation of the operation of any part of or all of the Permitted Installation for a period, likely to exceed 1 year; and
- c. resumption of the operation of any part of or all of the Permitted Installation after a cessation notified under 7.2 (b).

7.3 The Operator shall notify the following matter to the Regulator, in writing, within 14 days of their occurrence:

- a. where the operator is a registered company:
 - 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);
 - iii, any steps taken with a view to the Operator going into administration, entering into a company voluntary arrangement or being wound up

7.4 Where the Operator has entered into a Climate Change Agreement with the Government, the Operator shall notify the Regulator within one month of:-

- a, A decision by the Secretary of State not to re-certify that Agreement.
- b, A decision by either the operator or the Secretary of state to terminate that Agreement; and
- c, Any subsequent decision by the secretary of State to re-certify such an agreement.

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- 7.5 Where the Operator has entered into a Direct Participant Agreement in the Emissions Trading Scheme which covers emissions relating to the energy consumption of the activities, the operator shall notify the Regulator within one month of any decision by the Operator to withdraw from or by the Secretary of State to terminate the Direct Participant Agreement.
- 7.6.1 Adverse results from any monitoring activity shall be investigated as soon as the monitoring data has been determined or received. The following items shall be undertaken:-
- a. The cause shall be identified and corrective action taken.
 - b. A detailed record of the extent of the problem and action taken to rectify the situation.
 - c. A re-test to demonstrate compliance shall be undertaken as soon as possible.
 - d. The regulator shall be informed.
- 7.7 Advance warning of seven days shall be given to the regulator prior to the undertaking of any emissions monitoring.

8. Emissions

Emissions to Air

- 8.1 All emissions to air from the release points within Schedule A other than steam or water vapour, shall be colourless and free from persistent mist.
- 8.2 All emissions to air shall be free from persistent fume and free from droplets.
- 8.3 The installation shall comply with the emission limits (air) in Table L below

Table L (Emission Limits (air))			
Volatile organic compounds (measured as total carbon content excluding particulate matter)	Emission limits/ requirements	Fugitive limit	Monitoring
(Measured within the exhaust stack after the oxidiser or within the exhaust stack of the integral dryers/oxidisers)	100 mg/m ³	20% of Solvent input determined in accordance with appendix 2 of Sector Guidance Note IPPC SG6	Either continuously recorded monitoring instruments (surrogate monitoring included) calibrated annually by external extractive procedure in accordance with Schedule B or (Note the provisions of BAT Para 252 are assumed to have been previously complied with) Annual manual extractive test to comply with Condition 8.7.
Carbon monoxide (measured as total carbon content excluding particulate matter)	Emission limits/ requirements		Monitoring
(Measured within the exhaust stack after the oxidiser or within the exhaust stack of the integral dryers/oxidisers)	100 mg/m ³		Continuously recorded monitoring instrument calibrated annually by external extractive procedure in accordance with Schedule B (Note the provisions of BAT Para 252 are assumed to have been previously complied with) in addition annual manual extractive test to comply with Condition 8.9
Nitrogen Oxides	Emission limits/ requirements		Monitoring



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(Measured within the exhaust stack after the oxidiser or within the exhaust stack of the integral dryers/oxidisers)	100mg/m ³		Once a year extractive monitoring.
Visible emissions of smoke and or particulate matter	Emission limits/ requirements		Monitoring
(Measured within the exhaust stack after the oxidiser or within the exhaust stack of the integral dryers/oxidisers)	No visible smoke in normal operation and in any case shall not exceed the equivalent of Ringelmann Shade 1 as described in BS2742: 1969.		Visual daily check.

- 8.4 Visual assessments of emissions shall be undertaken as in Table 8.3 above. Remedial action shall be taken immediately in the case of abnormal emissions or the operation of the bypass alarm and the Regulator shall be notified if persistent mal operation occurs. All adverse results of the assessments shall be recorded.
- 8.5 The alarms and set-points detailed in Table M below shall be utilised at all times to prevent and minimise emissions of volatile organic compounds from the presses and coaters. All the alarms listed in Table M shall trigger an audible or visual alarm the within the press hall or plant supervisor's office. Any alarm trigger shall be recorded together with all action taken to correct the alarm conditions.

TABLE M	
Alarm	Alarm Set point
High Inlet temperature alarm	H =120 °C HH =150 °C
High temperature in Combustion chamber	NA
Bed level 1 high temperature alarm	950 °C
Bed level 2 high temperature alarm	950 °C
Bed level 3 high temperature alarm	950 °C
Bed cold face high temperature alarm	NA
Outlet high temperature alarm	H = 250 °C HH = 280 °C
Stack high temperature alarm	H =450 °C HH = 480 °C
Heat exchanger high temperature alarm	NA
Heat exchange tubes high temperature alarm	NA
Combustion chamber low temperature alarm	750 °C
Duct negative high alarm	H = 15 m/b HH = 30 m/b
Duct negative low alarm	LL = -20m/b L = 8m/b
Bed Delta P high alarm	NA
Bed Delta P low alarm	NA
LEL Shutdown RTO	30mg / M3 of extract air
Set Point parameters	
Ready temperature	800 °C
Forced poppet shift set point	NA
Total heat up time	NA
Self sustain set point	830 °C



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- 8.6 The oxidiser combustion chamber temperature shall be continuously monitored and recorded during operation, and the records made available for inspection by the Regulator.
- 8.7 The height of the exhaust stack serving the RTO abatement plant shall be 11 metres.
- 8.8 The efflux velocity from the outlet of the exhaust stack detailed A1 in Schedule A, shall be greater than 15 metres per second at full volumetric flow.
- 8.9 Methods to calibrate automated, continuous; measurement systems shall be carried out as specified by the appropriate CEN-standards. If CEN standards are not available, ISO standards, national or international standards, which will ensure the provision of data of an equivalent scientific quality, as agreed with the Regulator, shall apply. The reference conditions for measurements shall be 273K, 101.3kPa measured wet without correction for water vapour.

Emissions to Land

- 8.10 There shall be no emission to land from the Permitted Installation
- 8.11 The Operator shall notify the Regulator, as soon as practicable, of any information concerning the state of the Site which affects or updates that provided to the Regulator as part of the Site Report submitted with the application for this Permit.

Emissions to Water

- 8.12 The operator shall provide the local authority with details of any changes made to soakaways on this site prior to their introduction.
- 8.13 There are no emissions to surface waters from the installation.

Emissions to Sewer

- 8.14 There shall be no emission into water from the Permitted Installation of any substance prescribed for water for which is not listed in the discharge consent from Welsh Water except in a concentration, which is no greater than the background concentration.

Emissions of Heat

- 8.15 There are no conditions relating to emissions of heat.

Emissions of noise and vibration

- 8.16 Noise from the installation shall not exceed the levels in Table N.

Table N Noise Emission Levels		
Location	Day (07:00 to 23:00)	Night (23:00 to 07:00)
At any residential location by day (free-field). At any residential façade at night. (Or any surrogate point with appropriate distance corrections.)	50dB LAeq (or 3dB above background without any tonal component.) (Which ever is the greater)	45dB LAeq 60dB LAmax (or 3dB above background without any tonal component.) (Which ever is the greater)



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9. Transfer to public effluent treatment plant

9.1 All process effluent shall be released to foul sewer.

10. Off site conditions

10.1 There are no off site conditions.

11. Interpretation

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

"Annual average"
means the average of all daily averages in a calendar year.

"Regulator"
means any person authorised by Torfaen County Borough Council under the Provisions of the Environmental Permitting (England and Wales) Regulations 2016 and Section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, powers specified in Section 108(4) of that Act.

"Background concentration"
means the same as "background quantity" as defined in paragraph 1 to Part 1 to Schedule 1 of the EP Regulations.

"Climate Change Agreement"
means an agreement entered into with the Government for the saving of energy at the installation.

"Commissioning"
relates to the period after construction has been completed when the Permitted Installation process is being made ready to operate.

"Daily"
means a 24 hour period commencing at 00.00 hours.

"Fugitive emission"
means an emission from any point other than those specified in the Tables in part 8 of this Permit.

"Half-hour or half-hourly"
means a 30 minute period commencing on the hour or at half past the hour.

" L_{Aeq} "
means the A-weighted equivalent continuous equal energy level (dBA)

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

"Permitted Installation"
means the activities and the limits to those activities described in Table 3.1. of this Permit.

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“EP Regulations”

means the Environmental Permitting (England and Wales) Regulations 2016 and words and expressions defined in the EP Regulations shall have the same meanings when used in this Permit.

“Staff”

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

“References to releases into water”

means those substances mentioned in paragraph 7 of Part 1 of Schedule 1 to the EP Regulations.

“year”

means calendar year ending 31 December.

“6 monthly periodic monitoring”

means periodic monitoring in each 6 month period (January-June & July –December) with at least 4 months between sampling dates.

“Start up and shutdown operations”

shall mean operations whilst bringing an activity, an equipment item or a tank into or out of service or out of an idling state. Regularly oscillating activity phases are not considered as start-ups and shutdowns

“Coating”

shall mean any preparation, including all the organic solvents or preparations containing organic solvents necessary for its proper application, which is used to provide a decorative, protective or other functional effect on a surface.

“Coating activity”

shall mean coating activity in which a single or multiple application of continuous film of a coating is applied. If the coating activity includes a step in which the same article is printed by whatever technique is used, that printing step is considered part of the coating activity.

“Contained conditions”

shall mean conditions under which an installation is operated such that the VOC released from the activity are collected and discharged in a controlled way either via a stack or abatement equipment and are therefore not entirely fugitive.

“Fugitive VOC emissions”

shall mean any emissions not in waste gases of VOC into air, soil and water as well as, unless otherwise stated in Annex IIA of the SED, solvents contained in any products. They include uncaptured emissions released to the outside environment via windows, doors, vents and similar openings.

“Ink”

shall mean a preparation, including all the organic solvents or preparations containing organic solvents necessary for its proper application, which is used in a printing activity to impress text or images on to a surface.

“Input”

shall mean the quantity of organic solvents and their quantity in preparations used when carrying out an activity, including the solvents recycled inside and outside the installation, and which are counted every time they are used to carry out the activity;



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“Organic solvent”

shall mean any VOC which is used alone or in combination with other agents, and without undergoing a chemical change, to dissolve raw materials, products or waste materials, or is used as a cleaning agent to dissolve contaminants, or as a dissolver, or as a dispersion medium, or as a viscosity adjuster, or as a surface tension adjuster, or a plasticiser, or as a preservative.

“Organic compound”

shall mean any compound containing at least the element carbon and one or more of hydrogen, halogens, oxygen, sulphur, phosphorus, silicon or nitrogen, with the exception of carbon oxides and inorganic carbonates and bicarbonates.

“Oxidation”

shall mean either thermal oxidation or catalytic oxidation.

“Oxidation plant”

means thermal or catalytic incineration plant

“Printing activity”

shall mean any reproduction activity of text and/or images in which, with the use of an image carrier, ink is transferred onto whatever type of surface. Associated varnishing, coating, laminating techniques and cleaning of the equipment are included as part of the activity.

“Reuse of organic solvents”

shall mean the use of organic solvents recovered from an installation for any technical or commercial purpose and including use as a fuel but excluding the final disposal of such recovered organic solvent as waste.

- 11.2 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.
- 11.3 Unless otherwise stated, any references in this Permit to concentrations of substances in emissions into air means in relation to emission limits, the concentration, measured wet without correction for water vapour, at a temperature of 273K, at a pressure of 101.3kPa.
- 11.4 Volatile Organic compound (VOC) shall mean any organic compound having at 293.15K a vapour pressure of 0.01 KPa or more, or having a corresponding volatility under the particular conditions of use.

12. Written agreement to changes

- 12.1 Where the qualification “or 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 Regulator 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.
- 12.2 Any change proposed according to condition 12.1 and agreed in writing by the Regulator, shall not be implemented until the Operator has given the Regulator prior written notice of the implementation date for the change, and any relevant documentation referred to in this Permit shall be deemed to be amended.

End of Conditions



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SCHEDULE A

Emission Point Details as per variation application appendix D	
Press	Ducted to:
Cerutti Roto Gravure R960/2	Brofind Regenerative Thermal oxidiser (RTO) which is gas fired. Atmosphere Point A1
Nilpeter FA2	Brofind Regenerative Thermal oxidiser (RTO) which is gas fired. Atmosphere Point A1
Labelfire	Atmosphere Point A10
Nilpeter FA 22	Atmosphere Point A9/1 A9/2
Nilpeter FB2400	Atmosphere Point A8
ABG Digicon, HP6800	Atmosphere Point A7
GMC 2	Atmosphere Point A6
GMC 1	Atmosphere Point A5
RCS 3	Atmosphere Point A4
RCS 2	Atmosphere Point A3
RCS 1	Atmosphere Point A2
Ancillary equipment	
Renzmann Room	Brofind Regenerative Thermal oxidiser (RTO) which is gas fired. Atmosphere Point A1
UV Cleaning/Recovery Room	Atmosphere Point A18
Mekrom Flexographic Plate Maker	Atmosphere Point A17



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SCHEDULE B
Emission Monitoring Protocol (Air)

Installation: Printing

Stack Monitoring

Pollutant to be measured: **Volatile organic compounds (measured as total carbon content excluding particulate matter).**

Measurement position: External sample ports to the stacks serving the presses via either the integral dryers or the RTO system.

Measurement requirements: Any VOC analyser utilized for this measurement (a flame ionisation detector is suggested) should have a heated detector, and heated sample lines to ensure that volatile compounds do not condensate in the sample system (e.g. a stainless steel heated line) a suitable sintered filter is also suggested. Deviations from the above shall be reported and justified.

Reporting shall specify: Methodology, process operating conditions at the time of sampling, instrumentation used, calibration gas used and results obtained. Results should be presented as mgC/m³, The calculations involved and any assumptions made should also be specified. The results shall be reported to the local authority within 8 weeks of sampling.

Pollutant to be measured: **Carbon monoxide.**

Measurement position: External sample ports to the stacks serving the presses via either the integral dryers or the RTO system.

Measurement requirements: [Monitoring stack emissions: guidance for selecting a monitoring approach - GOV.UK \(www.gov.uk\)](http://www.gov.uk)

Reporting shall specify: Instrumentation type and calibration. Temperature at point of sampling, mg/m³ of carbon monoxide at conditions as specified in Condition 8.9. The results shall be reported to the local authority within 8 weeks of sampling.

Pollutant to be measured: **Nitrogen Oxides.**

Measurement position: External sample ports to the stacks serving the presses via either the integral dryers or the RTO system.

Measurement requirements: [Monitoring stack emissions: guidance for selecting a monitoring approach - GOV.UK \(www.gov.uk\)](http://www.gov.uk)

Reporting shall specify: Instrumentation type and calibration. Temperature at point of sampling, mg/m³ of nitrogen oxides at conditions as specified in Condition 8.9. The results shall be reported to the local authority within 8 weeks of sampling



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End of Permit