

## **Environment Agency**

### **Review of an Environmental Permit for an Installation subject to Chapter II of the Industrial Emissions Directive under the Environmental Permitting (England & Wales) Regulations 2010 (as amended)**

#### **Decision document recording our decision-making process following review of a permit**

The Permit number is: EPR/KP3433GN

The Operator is: SCA Hygiene Products Manchester Limited

The Installation is: Manchester Mill

This Variation Notice number is: EPR/KP3433GN/V004

#### **What this document is about**

Article 21(3) of the Industrial Emissions Directive (IED) requires the Environment Agency to review conditions in permits that it has issued and to ensure that the permit delivers compliance with relevant standards, within four years of the publication by the European Commission of updated decisions on BAT conclusions.

We have reviewed the permit for this installation against the revised BAT Conclusions for the production of pulp, paper and board industry sector published on 30 September 2014 in the Official Journal of the European Union. Where appropriate, we also considered other relevant BAT Conclusions published prior to this date but not previously included in a permit review for the Installation. In this decision document, we set out the reasoning for the consolidated variation notice that we have issued.

It explains how we have reviewed and considered the techniques used by the Operator in the operation and control of the plant and activities of the installation. This review has been undertaken with reference to the decision made by the European Commission establishing best available techniques (BAT) conclusions (BATc) for production of pulp, paper and board as detailed in document reference EU Official Journal (L 284) of Commission implementing decision 2014/687/EU of 26 September 2014. It is our record of our decision-making process and shows how we have taken into account all relevant factors in reaching our position

As well as considering the review of the operating techniques used by the Operator for the operation of the plant and activities of the installation, the consolidated variation notice takes into account and brings together in a single

document all previous variations that relate to the original permit issue. Where this has not already been done, it also modernises the entire permit to reflect the conditions contained in our current generic permit template.

The introduction of new template conditions makes the Permit consistent with our current general approach and philosophy and with other permits issued to installations in this sector. Although the wording of some conditions has changed, while others have been deleted because of the new regulatory approach, it does not reduce the level of environmental protection achieved by the Permit in any way. In this document we therefore address only our determination of substantive issues relating to the new BAT Conclusions.

## **How this document is structured**

1. Our decision
2. How we reached our decision
3. The legal framework
4. Annex 1– Review of operating techniques within the Installation against BAT Conclusions.
5. Annex 2a – Review and assessment of derogation request(s) made by the operator in relation to BAT Conclusions which include an Associated Emission Level (AEL) value.
6. Annex 2b - Consultation responses
7. Annex 3 – Improvement Conditions
8. Annex 4– Review and assessment of changes that are not part of the BAT Conclusions derived permit review.
9. Annex 5 - Priority Compliance Issues

# 1 Our decision

We have decided to issue the Variation Notice to the Operator. This will allow it to continue to operate the Installation, subject to the conditions in the Consolidated Variation Notice that updates the whole permit.

We consider that, in reaching that decision, we have taken into account all relevant considerations and legal requirements and that the varied permit will ensure that a high level of protection is provided for the environment and human health.

The Consolidated Variation Notice contains many conditions taken from our standard Environmental Permit template including the relevant annexes. We developed these conditions in consultation with industry, having regard to the legal requirements of the Environmental Permitting Regulations and other relevant legislation. This document does not therefore include an explanation for these standard conditions. Where they are included in the Notice, we have considered the techniques identified by the operator for the operation of their installation, and have accepted that the details are sufficient and satisfactory to make those standard conditions appropriate. This document does, however, provide an explanation of our use of “tailor-made” or installation-specific conditions, or where our Permit template provides two or more options.

## 2 How we reached our decision

### 2.1 Requesting information to demonstrate compliance with BAT Conclusion techniques

We issued a Notice under Regulation 60(1) of the Environmental Permitting (England and Wales) Regulations 2010 (a Regulation 60 Notice) on 21 November 2014 requiring the Operator to provide information to demonstrate where the operation of their installation currently meets, or how it will subsequently meet, the revised standards described in the relevant BAT Conclusions document.

The Notice required that where the revised standards are not currently met, the operator should provide information that

- Describes the techniques that will be implemented before 30 September 2018, which will then ensure that operations meet the revised standard, or
- justifies why standards will not be met by 30 September 2018, and confirmation of the date when the operation of those processes will cease within the installation or an explanation of why the revised BAT standard is not applicable to those processes, or
- justifies why an alternative technique will achieve the same level of environmental protection equivalent to the revised standard described in the BAT Conclusions.

Where the Operator proposed that they were not intending to meet a BAT standard that also included a BAT Associated Emission Level (BAT AEL) described in the BAT Conclusions Document, the Regulation 60 Notice required that the Operator make a formal request for derogation from compliance with that AEL (as provisioned by Article 15(4) of IED). In this circumstance, the Notice identified that any such request for derogation must be supported and justified by sufficient technical and commercial information that would enable us to determine acceptability of the derogation request.

The Regulation 60 Notice response from the Operator was received on 13 April 2015.

We considered it was in the correct form and contained sufficient information for us to begin our determination of the permit review but not that it necessarily contained all the information we would need to complete that determination.

The Operator made no claim for commercial confidentiality. We have not received any information in relation to the Regulation 60 Notice response that appears to be confidential in relation to any party.

## 2.2 Review of our own information in respect to the capability of the installation to meet revised standards included in the BAT Conclusions document

Based on our records and previous experience in the regulation of the installation we have no reason to consider that the operator will not be able to comply with the techniques and standards described in the BAT Conclusions. See Annex 1 for details.

## 2.3 Requests for Further Information during determination

Although we were able to consider the Regulation 60 Notice response generally satisfactory at receipt, we did in fact need more information in order to complete our permit review assessment, and issued a further information request on 2 September 2015. A copy of the further information request was placed on our public register.

## 2.4a Water Framework Directive (WFD)

Water Framework Directive (WFD)/Dangerous Substance Screen has been reviewed and amended to include priority pollutants under the WFD Hazardous pollutants regime. We have required all Operators to monitor both their discharge to water (not applicable for this facility) and the incoming water twice annually for these substances to help better assess the issue and potential sources of any elevated results.

A report has been produced detailing a monitoring programme conducted to assess the chemicals present in waste water and waste paper sludge from permitted paper mill sites to gather further information for WFD purposes and to assess compliance with restrictions. This report along with a review of historically monitored parameters has been used to rationalise the requirement for inclusion of these substances in this standard suite within the permit:

**Table 1. Review of historic monitoring within paper & pulp sector**

<b>Substance</b>	<b>Action (remove, retain or add)</b>	<b>Justification</b>
Aldrin	Remove	Limited usage in wood treatment, banned since 1980's across UK & EU. No recent detects
Atrazine	Remove	Agricultural herbicide with little relevance to the sector other than in background water quality. Banned in 2004 across EU. No recent detects.
Azinphos-methyl	Remove	Agricultural insecticide with little relevance to the sector other than in background water quality. Banned in 2006 across EU. No recent detects.
Chlorpyrifos	Retain	OP insecticide with various approvals in UK, some usage in forestry and a recent detect in sludge samples.
Cypermethrin	Retain	SP insecticide still approved for use in forestry applications in UK. PHS/ PS under WFD across EU. Recent detects in effluent samples
Dichlorvos	Remove	OP insecticide removed from market gradually from 2002 in UK and 2012 in EU. Limited direct relevance to the sector and no recent detects.
Dieldrin	Remove	OP insecticide with historic usage for wood treatment. Restrictions and bans since 1970's. Very limited recent detects and no direct relevance to sector.
Endosulphan (Alpha & Beta)	Retain	Organochlorine pesticide whilst recently banned in EU, still in use in many other non-EU countries. Recent detects.
Endrin	Remove	Organochlorine insecticide. Numerous restrictions in place since 1970's. No recent detects.
Fenitrothion	Remove	OP mainly used as an insecticide. EU wide authorisations withdrawn from 2007 and of limited relevance to the sector. No recent detects.
Hexachlorobenzene	Remove	Previous approvals as a fungicide, banned in UK from 1975 and EU since 1998. No recent detects.
Nonylphenols (and NPE's)	Add	Whilst severely restricted across EU for many years. NPE's were detected in 70% of samples in recent study. NP was detected at 6/9 sites. Potential sources unknown.
PCP	Retain	No current approval in UK/EU, but still in use elsewhere as a wood preservative. Several recent detects.
Simazine	Remove	Herbicide no longer authorised across EU and of little relevance to sector. No recent detects.
TBT	Retain	Range of historic uses including wood preservative and is still likely to be in use in a wide range of applications across the world including as is wood preservative. Several recent detects.
Trifluralin	Remove	Main use as agricultural herbicide, no longer approved for use in UK /EU. No recent detects.

## Metals

Various metals are required to be monitored within the Pulp & Paper BREF.

The BREF states “relevant metals” and provides the following as examples: Zinc (Zn), Copper (Cu), Cadmium (Cd), lead (Pb), Nickel (Ni).

Our Data would indicate adding mercury (Hg) is warranted due to its widespread presence in the environment and some effluents. We have therefore included a twice annual screen for the following metals: Zn, Cu, Cd, Pb, Ni & Hg.

### 2.4b Assessment of substances liable to pollute

Not applicable, relevant for direct discharges to surface waters.

## **3 The legal framework**

The Consolidated Variation Notice will be issued, under Regulations 18 and 20 of the EPR. The Environmental Permitting regime is a legal vehicle which delivers most of the relevant legal requirements for activities falling within its scope. In particular, the regulated facility is:

- an *installation* as described by the IED;
- subject to aspects of other relevant legislation which also have to be addressed.

We consider that, in issuing the Consolidated Variation Notice, it will ensure that the operation of the Installation complies with all relevant legal requirements and that a high level of protection will be delivered for the environment and human health.

We explain how we have addressed specific statutory requirements more fully in the rest of this document.

## **Annex 1: decision checklist regarding relevant BAT Conclusions**

BAT Conclusions for the production of pulp, paper and board, were published by the European Commission on 30 September 2014. There are 53 BAT Conclusions. This annex provides a record of decisions made in relation to each relevant BAT Conclusion applicable to the installation. This annex should be read in conjunction with the Consolidated Variation Notice.

The overall status of compliance with the BAT conclusion is indicated in the table as:

- NA Not Applicable
- CC Currently Compliant
- FC Compliant in the future (within 4 years of publication of BAT conclusions)
- NC Not Compliant

### **Table 2. Decision checklist for relevant BAT Conclusions**



Summary of BAT Conclusion requirement for production of pulp, paper and board	Status NA/CC/ FC/NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
BAT Conclusions that are not applicable to this installation	<b>NA</b>	Pulp & Paper Production BAT Conclusions; BAT conclusions for Kraft Pulping 19 - 32 inclusive; BAT conclusions for Sulphite Pulping 33 -39 inclusive; BAT conclusions for Mechanical / Chemical Pulping 40 and 41; BAT conclusions for Processing Paper for Recycling 42 - 46; 3, 4, 8, 9, 10, 11, 13, 14,15, 16, 48, 49, 50, 51
BAT Conclusions where we accept the operator's Reg 60 notice response that they are currently compliant and no further explanation is required.	<b>CC</b>	Pulp & Paper Production BAT Conclusions: General BAT Conclusions for the Pulp and Paper Industry 1, 2, 5, 6, 7, 12, 17, 18  BAT Conclusions for Papermaking and Related Processes 47, 52 & 53
BAT Conclusions where improvements will be undertaken on site within the 4 year period in order to achieve compliance with the narrative and/or BATAEL prior to the 4 year deadline	<b>FC</b>	Pulp & Paper Production BAT Conclusions; None
BAT Conclusions where the Operator has responded that they are not compliant and have not submitted any plans to become compliant	<b>NC</b>	Pulp & Paper Production BAT Conclusions; None

## **Key Issues**

BAT Conclusions for the production of Pulp and Paper.

**Annex 2a: Assessment, determination and decision where an application(s) for Derogation from BAT Conclusions with associated emission levels (AEL) has been requested.**

The IED enables a competent authority to allow derogations from BAT AEL's stated in BAT Conclusions under specific circumstances as detailed under Article 15(4):

'By way of derogation from paragraph 3, and without prejudice to Article 18, the competent authority may, in specific cases, set less strict emission limit values. Such a derogation may apply only where an assessment shows that the achievement of emission levels associated with the best available techniques as described in BAT conclusions would lead to disproportionately higher costs compared to the environmental benefits due to:

(a) the geographical location or the local environmental conditions of the installation concerned; or

(b) the technical characteristics of the installation concerned.

The competent authority shall document in an annex to the permit conditions the reasons for the application of the first subparagraph including the result of the assessment and the justification for the conditions imposed. '

The Operator did not request derogation from compliance with any AEL included within the BAT Conclusions as part of their Regulation 60 Notice response.

**Annex 2b: Advertising and Consultation on the draft decision**

This section is not applicable as no derogations from BAT AEL's have been considered.

### **Annex 3: Improvement Conditions**

In this case there were no improvement conditions considered necessary.

## **Annex 4: Review and assessment of changes that are not part of the BAT Conclusions derived permit review.**

### **Review of Site Report**

We have reviewed the Operators response to the Reg 60 Notice regarding the adequacy of their existing site report in fulfilling the requirements of a Site Condition Report for the purposes of IED. We have concluded that the existing report has been created and maintained by the Operator to a satisfactory standard and providing the Operator complies with the additional requirement for periodic monitoring, as contained within condition 3.1.3 it will comply with the revised requirements under IED.

#### **Table S3.1 Point source emissions to air – emission limits and monitoring requirements**

The frequency of monitoring for total particulate matter has been amended from a 6 monthly period to as requested by the Environment Agency officer. The frequency of monitoring of carbon monoxide has been amended from annually to as requested by the Environment Agency.

#### **Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements**

The determinands of total nitrogen and total phosphorous have been removed from the monitoring schedule following a review of historical data.

The determinands of chemical oxygen demand and total suspended solids have been moved to table S3.4 process monitoring requirements.

**Annex 5: Priority Compliance Issues & Detailed assessment of Reg 60 responses where future action likely**

<b>Compliance Issue</b>  Priority BAT indicated in <b>Bold Text</b>	<b>Relevant Permit Condition</b>	<b>Compliance stated by Operator</b>  <b>CC/FC/NC/NA</b>	<b>Compliance assessment conclusion</b>  <b>CC/FC/NC/NA</b>	<b>Summary of Permitting Officer Assessment against BATc techniques</b>	<b>Compliance Action to Implement BAT Conclusions</b>
<b>Environment Management System: BAT 1</b>	1.1.1	CC	CC	Evidence of application of relevant techniques provided in Regulation 60 response	Validate compliance by Inspection
<b>Raw materials: BAT 2</b>	1.3.1	CC	CC	Evidence of application of (a range of) techniques associated with BATC 7 provided in Regulation 60 response	
Raw materials: BAT 3	1.3.1	NA	NA	Regulation 60 response confirmed Hydrogen Peroxide is not used	
Raw materials handling: BAT 4	1.1.1	NA	NA	Regulation 60 response confirmed no wood pulping occurs	
<b>Water usage: BAT 5</b>	1.3.1	CC	CC	Evidence of application of relevant techniques provided in Regulation 60 response	
<b>Energy consumption:</b>	1.2.1	CC	CC	Evidence provided in the Regulation 60	No intention to certify energy management system to date

<b>Compliance Issue</b>  Priority BAT indicated in <b>Bold Text</b>	<b>Relevant Permit Condition</b>	<b>Compliance stated by Operator</b>  <b>CC/FC/NC/NA</b>	<b>Compliance assessment conclusion</b>  <b>CC/FC/NC/NA</b>	<b>Summary of Permitting Officer Assessment against BATc techniques</b>	<b>Compliance Action to Implement BAT Conclusions</b>
<b>BAT 6</b>				response identifying application of (a range ) of techniques associated with BATC 6.  Evidence submitted of ongoing management and reduction of energy use.	
Odour control: BAT 7	3.3.1	CC	CC	<b>Evidence of application of relevant techniques provided in Regulation 60 response</b>	
Monitoring process: BAT 8	3.5.1	NA	NA	Evidence provided that relevant process monitoring is undertaken as specified in BATC 10	
Monitoring air: BAT 9	3.5.1	NA	NA	Regulation 60 response confirms no chemical pulping occurs	None
<b>Monitoring water: BAT 10</b>	<b>3.5.1</b>	<b>NA</b>	<b>NA</b>	<b>BAT 10 only applies to direct discharges</b>	

<b>Compliance Issue</b> Priority BAT indicated in <b>Bold Text</b>	<b>Relevant Permit Condition</b>	<b>Compliance stated by Operator</b> <b>CC/FC/NC/NA</b>	<b>Compliance assessment conclusion</b> <b>CC/FC/NC/NA</b>	<b>Summary of Permitting Officer Assessment against BATc techniques</b>	<b>Compliance Action to Implement BAT Conclusions</b>
Odour control: BAT 11	3.3.1	NA	NA	Regulation 60 response confirms no pulping occurs	
<b>Waste management: BAT 12</b>	<b>1.4.1</b>	<b>CC</b>	<b>CC</b>	<b>Evidence provided that waste is segregated for application of Waste Hierarchy</b>	
Emissions to water: BAT 13	1.3.1	NA	NA		
<b>Emissions to water: BAT 14</b>	<b>1.3.1 &amp; 2.3.1</b>	<b>NA</b>	<b>NA</b>		
Emissions to water: BAT 15	2.3.1	NA	NA		
Emissions to water: BAT 16	2.3.1	NA	NA		
<b>Noise control: BAT 17</b>	<b>3.4.1</b>	<b>CC</b>	<b>CC</b>	<b>Evidence of application of relevant techniques provided in Regulation 60 response</b>	



<b>Compliance Issue</b> Priority BAT indicated in <b>Bold Text</b>	<b>Relevant Permit Condition</b>	<b>Compliance stated by Operator</b> <b>CC/FC/NC/NA</b>	<b>Compliance assessment conclusion</b> <b>CC/FC/NC/NA</b>	<b>Summary of Permitting Officer Assessment against BATc techniques</b>	<b>Compliance Action to Implement BAT Conclusions</b>
Decommissioning: BAT 18	3.1.3	CC	CC	<b>Evidence of application of relevant techniques provided in Regulation 60 response</b>	
<b>Recycled Fibre raw materials: BAT 42</b>	<b>1.3.1</b>	<b>NA</b>	<b>NA</b>		
<b>Recycled Fibre water emissions: BAT 43</b>	<b>1.3.1</b>	<b>NA</b>	<b>NA</b>		
Recycled Fibre water management: BAT 44	1.3.1	NA	NA		
Recycled Fibre water AEL's: BAT 45	1.3.1 & 3.5.1	NA	NA		
Recycled Fibre energy: BAT 46	1.2.1	NA	NA		
<b>Paper making waste water: BAT 47</b>	<b>1.3.1</b>	<b>CC</b>	<b>CC</b>	<b>Evidence of application of relevant techniques provided in Regulation 60 response</b>	

<b>Compliance Issue</b> Priority BAT indicated in <b>Bold Text</b>	<b>Relevant Permit Condition</b>	<b>Compliance stated by Operator</b> <b>CC/FC/NC/NA</b>	<b>Compliance assessment conclusion</b> <b>CC/FC/NC/NA</b>	<b>Summary of Permitting Officer Assessment against BATc techniques</b>	<b>Compliance Action to Implement BAT Conclusions</b>
<b>Paper making water usage: BAT 48</b>	<b>1.3.1</b>	<b>NA</b>	<b>NA</b>	<b>Applicable only to Speciality Mills</b>	<b>None</b>
Paper making water management: BAT 49	1.3.1	NA	NA		
Paper making water emissions: BAT 50	1.3.1 & 3.5.1	NA	NA		
Paper making Volatile Organic Compounds: BAT 51	3.2.1	NA	NA	Regulation 60 response detailed no on-line coating	None
<b>Paper making waste generation: BAT 52</b>	<b>1.4.1</b>	<b>CC</b>	<b>CC</b>	<b>Evidence of application of relevant techniques provided in Regulation 60 response</b>	
<b>Paper making energy consumption: BAT 53</b>	<b>1.2.1</b>	<b>CC</b>	<b>CC</b>	We have accepted the Reg 60 response as being compliant although a number of BAT techniques are not currently installed.	

<b>Compliance Issue</b>	<b>Relevant Permit Condition</b>	<b>Compliance stated by Operator</b>	<b>Compliance assessment conclusion</b>	<b>Summary of Permitting Officer Assessment against BATc techniques</b>	<b>Compliance Action to Implement BAT Conclusions</b>
Priority BAT indicated in <b>Bold Text</b>		<b>CC/FC/NC/NA</b>	<b>CC/FC/NC/NA</b>		
Response to Question 4 of Reg 60: ability of site report to be considered as a site condition report under IED	3.1.3	CC	CC	Response indicated that current site report has been kept up to date and will be reviewed and amended in order to comply with IED	Validate compliance by Inspection to ensure Operator amends site report where necessary, including the requirement for periodic monitoring where justified.
Note permit condition 2.3.1 will require Operate to operate as per Regulation 60 response documents referenced in Table S1.2.					