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BAT 1	BAT is to implement and adhere to an energy efficiency management system (ENEMS) appropriate to the local circumstances.	Applicable	In place
BAT 2	BAT is to continuously minimise the environmental impact of an installation by planning actions and investments on an integrated basis and for the short, medium and long term, considering the cost-benefits and cross-media effects.	Applicable	In place.
BAT 3	BAT is to identify the aspects of an installation that influence energy efficiency by carrying out an audit. It is important that an audit is coherent with a systems approach (see BAT 7).	Applicable	In place. An energy audit has been completed.
BAT 4	When carrying out an audit, BAT is to ensure that the audit identifies the following aspects;	Applicable	In place. Refer to BAT 3.
a)	energy use and type in the installation and its component systems and processes.	X - 5	Sec Carll
b)	energy-using equipment, and the type and quantity of energy used in the installation.	Consent of con	
c)	possibilities to minimise energy use, such as:  • controlling/reducing operating times, e.g. switching off when not in use (e.g.  • ensuring insulation is optimised,  • optimising utilities, associated systems, processes and equipment).		

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d)	possibilities to use alternative sources or use of energy that is more efficient, in particular energy surplus from other processes and/or systems.		
e)	possibilities to apply energy surplus to other processes and/or systems.		
f)	possibilities to upgrade heat quality.		
BAT 5	BAT is to use appropriate tools or methodologies to assist with identifying and quantifying energy optimisation.	Applicable	In place. The audits will follow best practice.
BAT 6	BAT is to identify opportunities to optimise energy recovery within the installation, between systems within the installation (see BAT 7) and/or with a third party.	Applicable	In place. The energy audit identified actions that have the potential to optimise energy recovery.
BAT 7	cooling and vacuum motor driven systems such as:	Applicable  For You've	Proposed. AES is currently rolling out ISO 5001 Energy Management thorough out the Group.
	compressed air pumping lighting drying, separation and concentration		

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BAT 8	BAT is to establish energy efficiency indicators by carrying out all of the following	Applicable	In place.
а)	Identifying suitable energy efficiency indicators for the installation, and where necessary, individual processes, systems and/or units, and measure their change over time or after the implementation of energy efficiency measures.		
b)	Identifying and recording appropriate boundaries associated with the indicators.		net like.
c)	Identifying and recording factors that can cause variation in the energy efficiency of the relevant process, systems and/or units.		Opuroses of M. Mills and other
BAT 9	BAT is to carry out systematic and regular comparisons with sector, national or regional benchmarks, where validated data are available.	Applicable	Proposed. Will be part of the ISO 5001 Management System.
BAT 10	BAT is to optimise energy efficiency when planning a new installation, unit or system or a significant upgrade by considering all of the following	Applicable of consent	In place. EED is central to all new equipment procurement/upgrade.
a)	The energy efficient design (EED) should be initiated at the early stages of the conceptual design/basic design phase, even though the planned investments may not be well-defined. The EED should also be taken into account in the tendering process.		

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b)	The development and/or selection of energy efficient technologies.			
с)	Additional data collection may need to be carried out as part of the design project or separately to supplement existing data or fill gaps in knowledge.			
d)	The EED work should be carried out by an energy expert.			
e)	The initial mapping of energy consumption should also address which parties in the project organisations influence the future energy consumption, and should optimise the energy efficiency design of the future plant with them. For example, the staff in the (existing) installation who may be responsible for specifying design parameters.		Given the nature of the energy systems at the installation there is no	
BAT 11	BAT is to seek to optimise the use of energy between more than one process or system within the installation or with a third party.	Not Applicable	opportunity to optimise the use of energy between systems or with third	
BAT 12	BAT is to maintain the impetus of the energy efficiency programme by using a variety of techniques.	Applicable	Proposed	
BAT 13	BAT is to maintain expertise in energy efficiency and energy-using systems by using techniques such as:	Applicable	In Place	
а)	Recruitment of skilled staff and/or training of staff. Training can be delivered by in-house staff, by external experts, by formal courses or by self-study/development.			
b)	Taking staff off-line periodically to perform fixed term/specific			

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	investigations (in their original			
	installation or in others.			
c)	Sharing in-house resources between			
	sites.			
d)	Use of appropriately skilled consultants			
	for fixed term investigations.			
e)	Outsourcing specialist systems and/or			
	functions			
<b>BAT 14</b>	BAT is to ensure that the effective	Applicable	In Place/Proposed	
	control of processes is implemented by			
	techniques such as:			
a)	Having systems in place to ensure that		t light.	
	procedures are known, understood and		gifter .	
<b>b</b> )	complied with.		18/ Bet	
b)	Ensuring that the key performance parameters are identified, optimised for		· es of for	
	energy efficiency and monitored.		it the state of th	
c)	Documenting or recording these		of the	
( )	parameters.		Reciprosition of the state of t	
<b>BAT 15</b>	BAT is to carry out maintenance at	Applicable 400		
	installations to optimise energy efficiency	\$0°	and the new processing plant will be included in the programme.	
	by applying all of the following:	to of col		
a)	Clearly allocating responsibility for the	Consente		
	planning and execution of maintenance.	Corr		
b)	Establishing a structured programme for			
	maintenance based on technical			
	descriptions of the equipment, norms,			
	etc. as well as any equipment failures			
	and consequences. Some maintenance			
	activities may be best scheduled for			
6)	plant shutdown periods.			
c)	Supporting the maintenance programme by appropriate record keeping systems			
	and diagnostic testing.			
d)	Identifying from routine maintenance,			
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	breakdowns and/or abnormalities possible losses in energy efficiency, or where energy efficiency could be improved.			
e)	Identifying leaks, broken equipment, worn bearings, etc. that affect or control energy usage, and rectifying them at the earliest opportunity.			
BAT 16	BAT is to establish and maintain documented procedures to monitor and measure, on a regular basis, the key characteristics of operations and activities that can have a significant impact on energy efficiency.	Applicable	Proposed. <b>AES</b> will prepare an Energy and Resource Management Procedure, which will take into account the need to monitor and measure all of the key characteristics of the installation's activities that have a significant impact on energy efficiency. These characteristics will be identified in the report on the energy audit (Ref BAT 3).	
<b>BAT 17</b>	Combustion.	Not Applicable	Se <sup>E</sup> of	
BAT 18	Steam Systems.	Not Applicable	No steam systems at the installation.	
BAT19	Heat Recovery.	Not Applicable	Sep out.	
BAT 20	Cogeneration.	Not Applicable	No cogeneration systems at the installation	
BAT 21	BAT is to increase the power factor according to the requirements of the local electricity distributor by using techniques such as those in Table 4.3, according to applicability.	Applicable	In Place/Proposed. Power factor correction has been applied at the existing plant.	
BAT 22	BAT is to check the power supply for harmonics and apply filters, if required.	Applicable	Proposed. AES will engage an electrical engineer to review energy management systems at the installation, which will address the efficiency of electric motors.	
BAT 23	BAT is to optimise the power supply efficiency by using techniques such as those in Table 4.4, according to applicability.	Applicable	Proposed. AES will engage an electrical engineer to review energy management systems at the installation, which will address the efficiency of electric motors.	

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BAT 24	BAT is to optimise electric motors in the following order;	Applicable	Proposed. <b>AES</b> will engage an electrical engineer to review energy management systems at the installation, which will address the efficiency of electric motors.
1	Optimise the entire system the motor(s) is part of.		
2	Optimise the motor(s) in the system according to the newly-determined load requirements, by applying one or more of the techniques in Table 4.5,		
3	When the energy-using systems have been optimised, then optimise the remaining (non-optimised) motors according to Table 4.5.		het lise.
BAT 25	BAT is to optimise compressed air systems (CAS) using the techniques such as those in Table 4.6, according to applicability.	Not Applicable	Thirtoge of the other
BAT 26	BAT is to optimise pumping systems by using the techniques in Table 4.7, according to applicability.	Not Applicable	petion et re
BAT 27	Heating, Ventilation and Air Conditioning	Not Applicable	No HVAC system at the installation.
BAT 28	BAT is to optimise artificial lighting systems by using the techniques such as those in Table 4.9 according to applicability.	Applicable	
<b>BAT 29</b>	Drying, Separation and Concentration.	Not Applicable	