Title of Document Energy Efficiency (2009)		
	Applicability	In place / Proposed

BAT 1	BAT is to implement and adhere to an energy efficiency management system (ENEMS) appropriate to the local circumstances.	Applicable	Proposed
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. Energy consumption is monitored and reported annually. Targets and implementation plans for the reduction in energy and resource consumption are set and outlined in the Annual Environmental Report (AER) as required by Schedule F of the existing Licence (W0185-01)
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	Proposed
BAT 4	When carrying out an audit, BAT is to ensure that the audit identifies the following aspects;	Applicable	Proposed, Refer to BAT 3.
a)	energy use and type in the installation and its component systems and processes.		Sector Method
b)	energy-using equipment, and the type and quantity of energy used in the installation.	Consett of cold	
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). 		
d)	possibilities to use alternative sources or		

Title of Document Energy Efficiency (2009)		
	Applicability	In place / Proposed

e) f)	 use of energy that is more efficient, in particular energy surplus from other processes and/or systems. possibilities to apply energy surplus to other processes and/or systems. 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 . Rilta completed an assessment of energy usage and potential measures to improve efficiency at the installation in 2015.
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.
BAT 7	BAT is to optimise energy efficiency by taking a systems approach to energy management in the installation. Systems to be considered as a whole include: process units heating systems such as: steam hot water cooling and vacuum motor driven systems such as: compressed air pumping lighting drying, separation and concentration	Applicable Fort	In place A systems based approach to optimising energy enciency is used to

Title of Document Energy Efficiency (2009)		
	Applicability	In place / Proposed

BAT 8	BAT is to establish energy efficiency indicators by carrying out all of the following	Applicable	In Place. Energy consumption is monitored and reported to the Agency annually in the AER (Refer to BAT2). Targets are set based on previous years consumption. The energy audit will identify the existing indicators of energy efficiency. It will be an objective of the audit to identify the boundaries associated with the indicators and installation specific causes of variation in efficiencies.
a)	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.		ی. بع.
b)	Identifying and recording appropriate boundaries associated with the indicators.		es of the any other tree
c)	Identifying and recording factors that can cause variation in the energy efficiency of the relevant process, systems and/or units.		oction pupos
BAT 9	BAT is to carry out systematic and regular comparisons with sector, national or regional benchmarks, where validated data are available.	Applicable For	Lan place.
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	In place . The control designs on the air compressor used to transfer the APCR from the bulk tankers to the silos will include airflow and air pressure diagnostics monitoring to maximize the efficiency and reliability the compressed air systems. The fans on the reverse jet filters on the APCR bagging plant will be designed to give high-energy efficiency for the volume being handled while still delivering the required external pressure.
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		

Title of Document Energy Efficiency (2009)		
	Applicability	In place / Proposed

	tendering process.		
b)	The development and/or selection of energy efficient technologies.		
c)	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.		چې
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.	ofcor	Perion purposes only. any other ase.
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	Given the nature of the energy systems at the installation there is no opportunity to optimise the use of energy between systems or with third parties.
BAT 12	BAT is to maintain the impetus of the energy efficiency programme by using a variety of techniques.	Applicable	In Place.
BAT 13	BAT is to maintain expertise in energy efficiency and energy-using systems by using techniques such as:	Applicable	In Place
a)	Recruitment of skilled staff and/or training of staff. Training can be delivered by in-house staff, by external		

Title of Document Energy Efficiency (2009)		
	Applicability	In place / Proposed

study/development.	
b) Taking staff off-line periodically to	
perform fixed term/specific	
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	
BAT 14 BAT is to ensure that the effective control of processes is implemented by techniques such as: Applicable In Place.	
control of processes is implemented by	
techniques such as:	
a) Having systems in place to ensure that	
procedures are known, understood and	
complied with.	
b) Ensuring that the key performance parameters are identified, optimised for	
parameters are identified, optimised for	
lenergy efficiency and monitored.	
c) Documenting or recording these parameters.	
parameters.	
BAT 15 <i>BAT is to carry out maintenance at</i> Applicable In Place. RILTA has a preventative maintenance programme in place.	٩
installations to optimise energy efficiency	с.
by applying all of the following:	
a) Clearly allocating responsibility for the	
planning and execution of maintenance.	
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	
plant shutdown periods.	

5 of 7

Title of Document Energy Efficiency (2009)		
	Applicability	In place / Proposed

c)	Supporting the maintenance programme by appropriate record keeping systems and diagnostic testing.		
d)	Identifying from routine maintenance, 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.		يع.
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	In Place
BAT 17	Combustion.	Not Applicable	No combustion systems at the installation.
BAT 18	Steam Systems.	Not Applicatie	No steam systems at the installation.
BAT19	Heat Recovery.	Not Applicable	
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.	Not Applicable	
BAT 22	BAT is to check the power supply for harmonics and apply filters, if required.	Not Applicable	

Title of Document Energy Efficiency (2009)		
	Applicability	In place / Proposed

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. Refer to BAT 2. Rilta will engage an electrical engineer to review energy management systems at the installation, which will address the efficiency of electric motors.
BAT 24	BAT is to optimise electric motors in the following order;	Applicable	Proposed Refer to BAT 2. Rilta 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,		W. Wolleruse.
3	When the energy-using systems have been optimised, then optimise the remaining (non-optimised) motors according to Table 4.5.		otion put required for the
BAT 25	BAT is to optimise compressed air systems (CAS) using the techniques such as those in Table 4.6, according to applicability.	Applicable	Proposed. Refer to BAT 2. Rilta will engage an electrical engineer to review energy management systems at the installation, which will address the efficiency of compressed air systems.
BAT 26	BAT is to optimise pumping systems by using the techniques in Table 4.7, according to applicability.	Applicable ^{nt}	In Place.
BAT 27	Heating, Ventilation and Air Conditioning	Applicable	Proposed. Refer to BAT 2. Rilta will engage an electrical engineer to review energy management systems at the installation, which will address the efficiency of office building heating system.
BAT 28	BAT is to optimise artificial lighting systems by using the techniques such as those in Table 4.9 according to applicability.	Applicable	Proposed. Refer to BAT 2. Rilta will engage an electrical engineer to review energy management systems at the installation, which will address the efficiency of the lighting system.
BAT 29	Drying, Separation and Concentration.	Not Applicable	