

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air - emission limits and monitoring requirements							
Emission point ref. & location ^{Note 1}	Parameter	Source	Limit (including unit)-these limits do not apply during start up or shut down.	Reference period	Monitoring frequency	Monitoring standard or method	
AU1, AU2, AU3	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	LCP 418 Boiler plant fired on biomass	400 mg/Nm ³ MSUL/MSDL to base load ^{Note 2}	95% of validated hourly averages within a calendar year	Continuous	BS EN 14181	
AU1, AU2, AU3	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	LCP 418 Boiler plant fired on biomass	220 mg/Nm ³ MSUL/MSDL to base load ^{Note 2}	Daily average	Continuous	BS EN 14181	
AU1, AU2, AU3	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	LCP 418 Boiler plant fired on biomass	200 mg/Nm ³ MSUL/MSDL to base load ^{Note 2}	Monthly mean of validated hourly averages	Continuous	BS EN 14181	
AU1, AU2, AU3	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	LCP 418 Boiler plant fired on biomass	200 mg/Nm ³ MSUL/MSDL to base load ^{Note 2}	Yearly average	Continuous	BS EN 14181	
AU1, AU2, AU3	Carbon monoxide (CO)	LCP 418 Boiler plant fired on biomass	600 mg/Nm ³ MSUL/MSDL to base load ^{Note 2}	Yearly average	Continuous	BS EN 14181	

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AU1, AU2, AU3	Sulphur dioxide (SO ₂)	LCP 418 Boiler plant fired on biomass	400 mg/Nm ³ MSUL/MSDL to base load <small>Note 2</small>	95% of validated hourly averages within a calendar year	Continuous	BS EN 14181	
AU1, AU2, AU3	Sulphur dioxide (SO ₂)	LCP 418 Boiler plant fired on biomass	85 mg/Nm ³ MSUL/MSDL to base load <small>Note 2</small>	Daily average	Continuous	BS EN 14181	
AU1, AU2, AU3	Sulphur dioxide (SO ₂)	LCP 418 Boiler plant fired on biomass	200 mg/Nm ³ MSUL/MSDL to base load <small>Note 2</small>	Monthly mean of validated hourly averages	Continuous	BS EN 14181	
AU1, AU2, AU3	Sulphur dioxide (SO ₂)	LCP 418 Boiler plant fired on biomass	50 mg/Nm ³ MSUL/MSDL to base load <small>Note 2</small>	Yearly average	Continuous	BS EN 14181	
AU1, AU2, AU3	Hydrogen chloride (HCl)	LCP 418 Boiler plant fired on biomass	12 mg/Nm ³ MSUL/MSDL to base load <small>Note 2</small>	Average over the sampling period	Periodic	BS EN 14181	
AU1, AU2, AU3	Hydrogen chloride (HCl)	LCP 418 Boiler plant fired on biomass	5 mg/Nm ³ MSUL/MSDL to base load <small>Note 2</small>	Average of samples obtained during one year.	Periodic	BS EN 14181	

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AU1, AU2, AU3	Hydrogen fluoride (HF)	LCP 418 Boiler plant fired on biomass	<1 mg/Nm ³ MSUL/MSDL to base load Note 2	Average over the sampling period	Annually	Note 8	
AU1, AU2, AU3	Dust	LCP 418 Boiler plant fired on biomass	40 mg/Nm ³ MSUL/MSDL to base load Note 2	95% of validated hourly averages within a calendar year	Continuous	BS EN 14181	
AU1, AU2, AU3	Dust	LCP 418 Boiler plant fired on biomass	22 mg/Nm ³ MSUL/MSDL to base load Note 2	Daily average	Continuous	BS EN 14181	
AU1, AU2, AU3	Dust	LCP 418 Boiler plant fired on biomass	20 mg/Nm ³ MSUL/MSDL to base load Note 2	Monthly mean of validated hourly averages	Continuous	BS EN 14181	
AU1, AU2, AU3	Dust	LCP 418 Boiler plant fired on biomass	20 mg/Nm ³ MSUL/MSDL to base load Note 2	Yearly average	Continuous	BS EN 14181	

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Emission point ref. & location <small>Note 1</small>	Parameter	Source	Limit (including unit)-these limits do not apply during start up or shut down.	Reference period	Monitoring frequency	Monitoring standard or method	
AU1, AU2, AU3	Mercury (Hg)	LCP 418 Boiler plant fired on biomass	5 µg/Nm ³ MSUL/MSDL to base load <small>Note 2</small>	Average over the sampling period	Annually <small>Note 5</small>	BS EN 13211	
AU1, AU2, AU3	Metals and metalloids except mercury (As, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Ti, V, Zn) <small>Note 6</small>	LCP 418 Boiler plant fired on biomass	-	Average over the sampling period	Annually	BS EN 14385	
AU1, AU2, AU3	Oxygen	LCP 418 Boiler plant fired on biomass	-	-	Continuous As appropriate to reference	BS EN 14181	
AU1, AU2, AU3	Water Vapour	LCP 418 Boiler plant fired on biomass	-	-	Continuous As appropriate to reference	BS EN 14181	
AU1, AU2, AU3	Stack gas temperature	LCP 418 Boiler plant fired on biomass	-	-	Continuous As appropriate to reference	Traceable to national standards	
AU1, AU2, AU3	Stack gas pressure	LCP 418 Boiler plant fired on biomass	-	-	Continuous As appropriate to reference	Traceable to national standards	
AU1, AU2, AU3	Stack gas volume flow	LCP 418 Boiler plant fired on biomass	-	-	Continuous As appropriate to reference	BS EN 16911 & TGN M2	

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AU1, AU2, AU3	As required by the Method Implementation Document for BS EN 15259	LCP 418 Boiler plant fired on biomass	-	-	Pre-operation and when there is a significant operational change	BS EN 15259
AU5 to AU25	Dust	Biomass dust collection fabric filters	-	-	-	-
<p>Note 1: Boilers vent via three flues within a common windshield at emission points AU1, AU2 and AU3, defined as points A1, A2, and A3 on site plan A1/420/140.</p> <p>Note 2: This limit applies when the load varies between MSUL/MSDL and base load during the daily reference period.</p> <p>MSUL and MSDL are defined in table S1.4 of this permit.</p> <p>Note 5: If we agree that the Hg emission levels are proven to be sufficiently stable due to the low mercury content in the fuel, periodic measurements may be carried out by prior agreement with the Environment Agency. Periodic measurements shall only be required each time that a change of the fuel characteristics may have an impact on the emissions.</p> <p>Note 6: Arsenic (As), cadmium (Cd), cobalt (Co), chromium (Cr), copper (Cu), manganese (Mn), nickel (Ni), lead (Pb), antimony (Sb), selenium (Se), thallium (Tl), vanadium (V) and zinc (Zn).</p> <p>Note 8: Monitoring standard to be agreed in writing with the Environment Agency.</p>						

Table S3.2 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements						
Emission point ref. & location <small>Note 1</small>	Parameter	Source	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
W1	-	Sewage treatment plant	No limit set	-	-	-
W3	-	Cooling water	No limit set	-	-	-

Note 1: Shown on site plan A1/420/0237 Rev B2

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
LCP 418	Net electrical efficiency	Once within 4 months after commissioning and then after each modification which could significantly affect these parameters	EN Standards or equivalent	-