



MURROW AD PLANT LIMITED PERMIT VARIATION APPLICATION MARCH 2023

Prepared for
Murrow AD Plant Ltd

REPORT SCHEDULE

Client: Murrow AD Plant Ltd.

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Revision History

DATE OF REVISION	NEW VERSION	REASON FOR CHANGE	APPROVED
12.02.24	V2.0 FINAL	Update application at duly making due to change scope of variation	Murrow AD Plant Ltd. 16.02.24

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1. EMISSION POINT MONITORING

Emission Point Reference and Location	Monitoring Method	Monitoring Frequency	Relevant Procedures
A1 Flare	Flare use time logged on SCADA system. Monitoring to be carried annually for hourly average emissions rates for given variables.	Annual if required if flare operational more than 10% of year. Flare use time logged on SCADA system.	To be carried out by third party contractor with MCERTS accreditation per appropriate BS EN methodology for given variables.
A2 Unused	-	-	-
A3a CHP Engine Exhaust Stack	Monitoring to be carried annually for hourly average emissions rates for given variables.	Annual monitoring exercise.	To be carried out by third party contractor with MCERTS accreditation per appropriate BS EN methodology for given variables.
A3b CHP Engine Exhaust Stack	Monitoring to be carried annually for hourly average emissions rates for given variables.	Annual monitoring exercise.	To be carried out by third party contractor with MCERTS accreditation per appropriate BS EN methodology for given variables.
A3c CHP Engine Exhaust Stack	Monitoring to be carried annually for hourly average emissions rates for given variables.	Annual monitoring exercise.	To be carried out by third party contractor with MCERTS accreditation per appropriate BS EN methodology for given variables.
A3d CHP Engine Exhaust Stack	Monitoring to be carried annually for hourly average emissions rates for given variables.	Annual monitoring exercise.	To be carried out by third party contractor with MCERTS accreditation per appropriate BS EN methodology for given variables.
A4 Biogas Upgrading Unit CO ₂ vent	Daily odour sniff test monitoring. Leak detection and repair programme (LDAR).	Daily. Undertaken every 6 months.	Outlined in odour management plan. According to site specific LDAR Plan.

Emission Point Reference and Location	Monitoring Method	Monitoring Frequency	Relevant Procedures
A5 CO ₂ Recovery Unit Emergency Pressure Relief Valve	Daily odour sniff tests. Time in use.	Daily. Ongoing – every time in use. Times in use subject to audit and review.	Outlined in odour management plan. Incident reporting procedures, daily checks sheets, and standard operating procedures, annual performance review and audits.
A6 Backup Diesel Generator Exhaust Stack	Not monitored.	Not monitored.	Not monitored.
A7a – A7f Emergency Under/Over Pressure Relief Valves on Digesters	Use of valves, including events leading to use, time in use, and corrective measures taken to be recorded.	Ongoing – every time in use. Times in use subject to audit and review. Daily visual inspection.	Incident reporting procedures, daily checks sheets, and standard operating procedures, annual performance review and audits.
A8 Displaced Air Vent – Liquid Feedstock Reception Tank	Daily odour sniff tests.	Daily.	Daily sniff test odour monitoring outlined in Odour Management Plan.
A9 ROV Switch Emergency Pressure Relief Valve	Daily sniff test odour monitoring.	Daily.	As specified in odour management plan.
A10 Emergency Pressure Relief Valve LNG Flogas Tank	Daily sniff test odour monitoring.	Daily.	As specified in odour management plan.
A11 Emergency Pressure Relief Valve LNG (liquified natural gas) Flogas Tank	Daily sniff test odour monitoring.	Daily.	As specified in odour management plan.
A12 Emergency Pressure Relief Valve LNG Flogas Tank	Daily sniff test odour monitoring.	Daily.	As specified in odour management plan.
W1 Discharge of Clean Surface Water	Currently all water discharged from this point is retained in a sealed tank and pumped back into the AD plant for use in the process.		
W2 Discharge of Clean Surface Water Batch Following Test and Release	Every batch of water tested before release using a bench top spectrophotometer.	On a batch basis for every batch to be released.	Surface water batch test and release procedure.

Emission Point Reference and Location	Monitoring Method	Monitoring Frequency	Relevant Procedures
W3 Discharge of Clean Surface Water Batch Following Test and Release	Every batch of water tested before release using a bench top spectrophotometer.	On a batch basis for every batch to be released.	Surface water batch test and release procedure.

