

Monitoring Schedule

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Procedure Written by:	William Grant (WRM Ltd)
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Procedure Authorised by:	R. Hanmer-Dwight

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1.0 PROCEDURE OVERVIEW

This procedure document details the routine and periodic monitoring requirements of University of Liverpool Energy Company Limited (hereon referred to as ULEC) in line with their bespoke Environmental Permit. The procedure has been split into component parts for ease of reference by site operatives.

2.0 SCOPE OF SITE MONITORING

ULEC shall proactively maintain the work environment and site infrastructure in accordance with the site's Environmental Permit conditions. Table 1 itemises the scope of the site's monitoring commitments.

Table 1 - Monitoring Requirements

Monitoring Aspect	Monitoring to be Undertaken	Frequency	Responsibility	Subsequent Action
Environmental				
Oxides of Nitrogen	On all boilers and CHPs whilst they are operational (not during start-up or shut-down).	6-monthly	Maintenance Engineers (external) and Carbon and Utilities Manager	If results exceed Emission Limit Value (100mg/Nm ³ at 3% Oxygen for Boiler and 75mg/Nm ³ at 15% Oxygen for engine), investigate causes and re-monitor.
Carbon Monoxide	On all boilers and CHPs whilst they are operational (not during start-up or shut-down).	6-monthly	Maintenance Engineers (external) and Carbon and Utilities Manager	If results exceed Emission Limit Value (100mg/Nm ³ at 3% Oxygen for Boiler and 100mg/Nm ³ at 15% Oxygen for engine), investigate causes and re-monitor.
Sulphur Dioxide	On all boilers whilst they are operational (not during start-up or shut-down).	6-monthly	Maintenance Engineers (external) and Carbon and Utilities Manager	If results exceed Emission Limit Value (35mg/Nm ³ at 3% Oxygen), investigate causes and re-monitor.

Monitoring Aspect	Monitoring to be Undertaken	Frequency	Responsibility	Subsequent Action
Dust	On all boilers whilst they are operational (not during start-up or shut-down).	6-monthly	Maintenance Engineers (external) and Carbon and Utilities Manager	If results exceed Emission Limit Value (5mg/Nm ³ at 3% Oxygen), investigate causes and re-monitor.
Process Monitoring				
Gas usage	Check meter readings	Monthly	Carbon and Utilities Manager	N/A
Water usage	Check meter readings	Monthly	ADSM	N/A
Electricity usage	Check meter readings	Monthly	Carbon and Utilities Manager	N/A

3.0 ROLES AND RESPONSIBILITIES

Site operatives shall:

- Undertake monitoring of parameters assigned to them by the Carbon and Utilities Manager as per the instructions in this procedure.

The Carbon and Utilities Manager shall:

- Be responsible for ensuring all required monitoring is undertaken and recorded; and,
- Ensure that site operatives have the required training to carry out monitoring activities as required.

The Head of Maintenance and Engineering Services shall:

- Ensure that site operatives have the required training to carry out monitoring activities as required.

WRM Limited
18 Manor Square, Otley, LS21 3AY

Tel: 01943 468138

Email: info@wrm-ltd.co.uk Web: www.wrm-ltd.co.uk

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