 United Utilities Water for the North West	Wastewater Treatment	Reference: WwP/I/3006/01/03
	Site Specific Instruction (SSI)	Version: 15 Issue date: 18/12/2023 Expiry date: 18/12/2024
	EPR Accident Management Plan Blackburn WwTW	
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1. Purpose

This Site Specific Instruction describes the requirements, procedures and actions to be taken in the event of an environmental accident at Blackburn WwTW. This plan will support and align with Blackburn WwTW Environmental Risk Assessment and other key documents forming the management system.

2. Scope

Environmental accidents shall cover emissions (including potential emissions) to air, land or water that can to cause harm to the environment.

3. Responsibility


Instruction to be carried out by a trained person designated by the Production Manager.

4. Location of Site

The Installation land is owned and occupied by United Utilities as part of Blackburn WwTW.

Insert your site specific information in the table below. This info can be found in your permit documentation such as an ESI report on the QA or AcMP, and OMP for example.

Nearest Site of Scientific Interest (SSSI)	Beeston Brook Pasture is located 1.8km to the south of the installation.
Nearest receptor	There is housing and industrial areas to the south and west of the WwTW at an approximate distance of 2000m, however there are no records of complaints from receptors in these areas.
Closest natural watercourse.	The River Darwen runs from the east to the south of the installation.
Ground	The installation is located on a minor aquifer with low to intermediate permeability.

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5. Management

UU operates a Quality and Assurance System which is certified against the ISO9001 and ISO14001 standards and which is applicable to the Blackburn WwTW. The site also operates to UU Health and Safety procedures. All relevant procedures are made available to employees through the company intranet.

6. Acts of Vandalism

Malevolent acts like vandalism is included in the site Environment risk assessment. (Follow Environmental Risk Assessment in table 1.1).

7. Containment of Fire Water

Ensure all fire water is returned to the site drainage. Fire water can be isolated and tested prior to returning all flows to the head of the treatment works via the sealed drainage system for full treatment by co-settlement in the Nereda Plant.

8. Failure of Pressure Vacuum Relief Valves (PVRV)

All digesters have a duty standby PVRV which are exercised and swapped over regularly. To carry this out please follow digester standard operating procedure (SOP) and primary digester site specific instructions (SSI). (Follow links in table 1.1).

9. Vehicle Collision


Please follow traffic management plan and environmental risk assessment available on the Quality assurance management systems. (Follow links in table 1.1).

10. Failure of Main Services

Please follow Process loss contingency plan available on the Quality assurance management systems. (Follow links in table 1.1).

11. Operator Error

All staff have training roles matrix in place and receive one to one coaching with production managers, SOPs and SSI's all ensure staff are knowledgeable and competent to carry out the role. If operator errors do occur then appropriate action is taken such as re-training, review and update SOPs.

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12. Accessibility of Control Equipment in Emergency Situations

Follow operational incident management procedures in the link from table 1.1.

13. Risk of Explosion

Trained Digester Safety Controllers (DSC) specialise in the management of safe practices to prevent the risks of accidents (e.g. risk of explosion) and harm to human health and ensure continuity. The DSC role is given to one of the process staff.

The DSC must have attended the specialist DSC training, as well as Hazardous area training and should hold a BTEC or equivalent in the operation of the activities The DSC is trained in the practical and theoretical knowledge of the operation, maintenance and commissioning of potentially explosive atmospheres associated with installation activities. Any changes to normal operational procedures within the designated safety zones must be approved by the DSC who approves written authorisations for Safe Systems of Work on sludge digesters and ancillary equipment and ensures that the systems and materials used are compliance with the Codes of Practice.

In addition the DSC carries out an annual inspection to ensure that the safety requirements set out in the zoning diagrams and documentation are still current. Chemicals must be stored as per the COSHH data on Chemwatch. Site data sheets available through a designated COSHH assessor. (Refer to references in table 1.1)


Given the plant has a comprehensive monitoring, detection, and shutdown system and is manned / monitored 24 hours a day the risks posed by explosion are deemed to be sufficiently managed and mitigated.

14. Lightning Strike

In the event of a strike follow Operational incident management procedure in the link from table 1.1.

15. Incidents – Roles and Responsibilities

The operational incident management procedures provides the necessary roles and responsibly matrix (Refer to Link in table 1.1).

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16. Communication with Relevant Authorities


Incident management procedures are located on the quality assurance system. This details the incident process, Specific roles, incident scenarios and advice. (Refer to Accident Investigation and Reporting link in table 1.1). Key procedures and documents required for the effective management of environmental accidents and their locations are:

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Management System	Link
Accident Investigation and Reporting	Operational Incident Management Procedure
	Incident management summary guidance
	EPR Waste and Installation Incident Notification and Reporting WwP/S/001/01/14
	Process Loss Contingency Plan WwP-3006-30-01
	Digester and biogas emergency plan WwP-I-3006-01-16
	Flood and spill plan WwP-I-3006-30-03
Risk Assessment	Code of Practice - Installations in Potentially Explosive Atmospheres associated with Water & Wastewater
References	Environmental risk assessment WwP-F-3006-25-19
	Site P&ID's Biogas and sludge
	Traffic management plan
	Site Drainage plan
	Bioresource Quality Assurance System
	DSEAR Code of Practice
	DSEAR Zoning plan
	Site Surface Plan
Chemwatch	

17. Environmental Accident Management Plan

Companywide procedures are available for controlling potential impacts on the environment. In addition a single page Environmental Accident Management Plan has been developed to summarise what are considered to be the more likely events that might occur within the installation and what actions they may need to take. The aim of the Plan is to be informative, provide link to appropriate management systems, provide additional assistance from key personnel, simple to use and be readily to hand. It seeks to summarise what are considered to be the more likely events that might occur at the Blackburn installation and what actions they may need to take. It is expected that this will be laminated and posted on the site notice board.

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United Utilities Plc - Blackburn Wastewater Treatment Works			
ENVIRONMENTAL ACCIDENT MANAGEMENT PLAN			
Likely Causes and Consequences of Environmental Accident			
Causes	Likely Impact	Management Procedure	Additional assistance
Malfunction of the flare stack (i.e. failure to ignite)	Release of surplus biogas to atmosphere	<ul style="list-style-type: none"> Flare Stack Operation WwP-I-3006-17-02 Flare Stack Isolation WwP-I-3006-17-14 	<ul style="list-style-type: none"> Uniflare ERA Process Safety representative
Malfunction of the odour control unit	Release of untreated odour to atmosphere	<ul style="list-style-type: none"> Odour management plan Wwp-I-3021-01-05 Odour Control Operators Guide 	<ul style="list-style-type: none"> Higgins & Hewins Paul Kynaston ERA
Release of any biogas – fugitive emission from condensate pot, water seal etc or PRV / PVRV valve (i.e. operating whilst gas holder not full)	Release of surplus biogas to atmosphere	<ul style="list-style-type: none"> Biogas Operational Set Points WwP-I-3006-17-09 Code of Practice - Installations in Potentially Explosive Atmospheres associated with Water & Wastewater 	<ul style="list-style-type: none"> Process Safety representative ERA ICC Health & Safety representative
Loss of containment of storage tanks (chemical/sludge/oil) caused by structural or control failure	Discharge of untreated sludge or raw materials to surface water. Land/groundwater contamination	<ul style="list-style-type: none"> Disposal of Spillage WP/S/001/22/06 	<ul style="list-style-type: none"> Environmental Services or other Contract Tanker Service ERA ICC Health & safety representative
Fire or increased risk of fire (i.e. oxygen found in biogas)	Fumes, structural damage, control loss	<ul style="list-style-type: none"> Code of Practice - Installations in Potentially Explosive Atmospheres associated with Water & Wastewater Digestion and Biogas Emergency Plan WwP/I/3006/01/16 	<ul style="list-style-type: none"> Emergency Services Process Safety Representative Health & Safety representative ICC Biogas purging contractors ERA
Site security breach	Pollutant emissions to air land or water	<ul style="list-style-type: none"> Security Measures WP/S/001/29/06 	<ul style="list-style-type: none"> Police ICC ERA ICC

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CONTACT LIST	
UU Production Manager: Mark Nixon	██████████
UU Area Business Manager: Lisa Turner	██████████
UU Environmental Regulatory Advisor (ERA): Peter Towne	██████████
UU Integrated Control Centre (ICC)	03450 726097
UU ICC Duty Manager	████████████████████
Process Safety Manager: Mark Hughes	██████████
Odour Principle Engineer: Paul Kynaston	██████████
Customer Liaison Team - Customerrelationservicesdrafts@uuplc.co.uk	
Stakeholder Management (Corporate Affairs) Jemma Parkinson	██████████
Health and Safety Representative: Grant Dixon	██████████
Waste Services Manager Chris Ingham	██████████
Waste Disposal & Recycling Manager John Lightfoot	██████████
Uniflare - Emergency Contact (Flare maintenance)	██████████
Purge Contractors Various listed in Digestion Biogas Emergency Plan WwP-I-3015-01-16. A copy is available inside the Emergency locker on site.	Various
Fire Service	0161 6098310 or 999
Police	0161 8568829 or 999
Environment Agency – Local Inspector - Gabriela Boca	02030 251 277
Environment Agency – Emergency Hotline (24hr)	0800 80 70 60
Local Council	01772 906900
SITE ADDRESS	
Blackburn WwTW, Cuerdale Lane, Samlesbury, Preston PR5 0UY	
NOTIFICATION	
<p>United Utilities may be required to notify the Environment Agency using a Part A Notification / Schedule 5 form without delay of any accident which has caused, is causing or has the potential to cause significant pollution, as required by Clause 4.3.1 and 4.3.2 of the Environmental Permit.</p> <p>For further information relating to notifications and guidance on scenarios that are reportable and timescales please refer EPR Waste and Installation Incident Notification and Reporting WwP/S/001/01/14 document.</p> <ul style="list-style-type: none"> • During 8am and 4pm Monday to Friday contact your local ERA in the first instance or Lead ERA David Henry on ██████████. • Outside of these hours and Bank Holidays please contact ICC. <p>Please include your local ERA in email correspondence or waste compliance mailbox.</p>	