

Hazard/threat category	Sub-category
Industrial accidents and environmental pollution	Fire or explosion at gas terminal or pipeline
Hazard and threat description, plus scale	Risk reference number
Up to 3km around site causing up to 10 fatalities and 100 casualties	HL1
Date of revision	Next review
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Version	2
Author	Royal Berkshire Fire and rescue Service

1. Overview of hazard or threat

Fire and explosion at gas terminal or pipeline, spreading debris over a large area. A rapidly expanding fireball would cause smaller fires to start. Damage to surrounding buildings and infrastructure could be severe making access in and around the site very difficult for responding emergency services.

Water supplies for fire fighting could be damaged.

Smoke from the initial fire and subsequent fires could possibly be toxic and will spread over a large area depending on the weather conditions.

2. Key historical evidence

There is no evidence of this having happened in the UK

3. Likelihood

Hazard	Outcome description	Likelihood
Fire or explosion at gas terminal or pipeline	Up to 3km around site causing up to 10 fatalities and 100 casualties	Negligible (1)

4. Impact

Summary

Hazard	Outcome description	Impact			
		Social	Health	Env	Econ
Fire or explosion at gas terminal or pipeline	Up to 3km around site causing up to 10 fatalities and 100 casualties	3	3	3	3

	casualties				
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Details

Impacts
Primary
Damage to surrounding properties leading to members of the public unable to return to their homes or place of work
Large numbers of casualties requiring treatment for burns.
Recovery of bodies from the site and the surrounding area
Poor air quality due to smoke which may be toxic and contain noxious substances
Access to area around gas terminal and or pipeline
Secondary
Long term effects on business not directly involved in the fire
Gas supplies to properties both private and commercial in the area could be disrupted
Drifting smoke may affect adjacent transport links

5. Vulnerability and resilience

Most pipelines tend to be underground or in secure areas, terminals are in secure areas.

6. Mitigation and control measures

Plans in place under COMAH regulations to deal with on and off site incidents.

7. Overall assessment

Category	Sub-category		
Industrial accidents and environmental pollution	Fire or explosion at gas terminal or pipeline		
Outcome description	Impact	Likelihood	Risk
Up to 3km around site causing up to 10 fatalities and 100 casualties	3	1	Medium

Controls in place

Pipeline Safety Regulations
COMAH regs and on site and off site plans
Site specific plans
BFRS OC 11/30, Major Incidents; OC 11/44, Gas Pipelines; OC 14/2/1,
Gas Indicator combustible
Oxfordshire County Council Emergency Plan
RBFRS Major Incident Plan
Milton Keynes Council Major Accident Hazard Pipeline plan
Environment Agency Incident Management Plans
EA 24/7 Incident Response
EA MOU with Fire Brigades, Police, Local Authorities, Highways Agency,
Health Protection Agency & Health Authorities
South Central Ambulance NHS Trust Major Incident Plans
Royal Berkshire Hospital NHS Trust Major Incident Plan
Heatherwood & Wexham Park Hospitals NHS Trust Major Incident Plan
Berkshire Healthcare Trust Major Incident Plan
Berkshire Primary Care Organisations Major Incident Plan and Operational
Response Manuals
Buckinghamshire Hospitals NHS Trust Major Incident Plan
Buckinghamshire Primary Care Organisations Major Incident Plan
Buckinghamshire Mental Health Trust Major Incident Plan
Milton Keynes Hospital NHS Trust Major Incident Plan
Oxford Radcliffe Hospitals NHS Trust Major Incident Plan
Nuffield Orthopaedic Clinic Major Incident Plan
Oxfordshire Primary Care Organisations Major Incident Plan
Oxford Mental Health Trust Major Incident Plan
South Central Strategic Health Authority Major Incident Plan
Berkshire Integrated Emergency Planning Structure
Berkshire Unitary Authorities Emergency Plans X 6
Buckinghamshire CC Emergency Plan
Aylesbury Vale District Council Emergency Plan
Chiltern District Council Emergency Plan
South Bucks District Council Emergency Plan
Thames Valley Police Emergency Procedures Manual
ACPO Emergency Procedures Manual
Oxfordshire Fire & Rescue Service Major Incident Policy

Additional risk treatment required

Local/Regional joint emergency plans
Local/Regional joint exercises