

<b>Hazard/threat category</b>	<b>Sub-category</b>
Industrial accidents and environmental pollution	Fire or explosion at an onshore fuel pipeline
<b>Hazard and threat description, plus scale</b>	<b>Risk reference number</b>
Up to 1km around site causing up to 100 fatalities and up to 500 casualties. Explosions would cause primarily crush/cuts/bruise type injuries as well as burns. Fires would cause predominantly burn-type injuries	H5
<b>Date of revision</b>	<b>Next review</b>
December 2007	December 2008
<b>Version</b>	2
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**1. Overview of hazard or threat**

Catastrophic fire and or explosion on an onshore fuel pipeline resulting in a rapidly expanding fireball. This would result in other smaller fire starting and blast damage to surrounding buildings.

Difficulty in gaining access to pipeline and surrounding area until the fuel supply has been shut down.

Water supplies for fire fighting could be damaged.

Large numbers of casualties with burns.

Leaking fuel could run into drains and water courses

**2. Key historical evidence**

There is no evidence of this type of event having occurred in the UK.

**3. Likelihood**

<b>Hazard</b>	<b>Outcome description</b>	<b>Likelihood</b>
Fire or explosion at an onshore fuel pipeline	Up to 1km around site causing up to 100 fatalities and up to 500 casualties. Explosions would cause primarily crush/cuts/bruise type injuries as well as burns. Fires would cause predominantly burn-type injuries	<b>Negligible (1)</b>

#### 4. Impact

##### Summary

Hazard	Outcome description	Impact			
		Health	Social	Env	Econ
Fire or explosion at an onshore fuel pipeline	Up to 1km around site causing up to 100 fatalities and up to 500 casualties. Explosions would cause primarily crush/cuts/bruise type injuries as well as burns. Fires would cause predominantly burn-type injuries	4	4	4	4

##### Details

Impacts
<b>Primary</b>
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 contain toxic or noxious substances
Possible serious environmental contamination of land, surface water or ground water
<b>Secondary</b>
Possible health implications due to toxic substances in the smoke.
Possible contamination from fuel of area around site from leaking pipeline
Possible contamination of surface and ground water abstractions including drinking water.

#### 5. Vulnerability and resilience

#### 6. Mitigation and control measures

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

#### 7. Overall assessment

<b>Category</b>	<b>Sub-category</b>		
Industrial accidents and environmental pollution	Fire or explosion at an onshore fuel pipeline		
<b>Outcome description</b>	<b>Impact</b>	<b>Likelihood</b>	<b>Risk</b>
100 fatalities and up to 500 casualties. Explosions would cause primarily crush/cuts/bruise type injuries as well as burns. Fires would cause predominantly burn-type injuries	<b>4</b>	<b>1</b>	<b>Medium</b>

**Controls in place**

Site specific plans  
UK Pipeline Emergency Procedure  
Pipeline Safety Regulations  
COMAH Regulations including on and off site plans  
Oxfordshire County Council Emergency Plan  
RBFRS Major Incident Plan  
Milton Keynes Council Major Incident Guide  
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 Service 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