

INDIVIDUAL RESPONDER HAZARD AND THREAT RISK ASSESSMENT

Hazard Threat category	
Industrial Accidents and Environmental Pollution	
Hazard Threat Description Including scale	Risk Reference No
Fire or explosion at an onshore fuel pipeline. Up To 1 Km Around The Site. Up To 100 Fatalities. 500 Casualties.	H5
Date of Revision	Next Review Date
Oct 2008	

1. Overview of Hazard or Threat

Fuel pipelines transfer everyday fuels from refineries to storage depots ready for local distribution by road tankers.

Accidental damage to a pipeline could result in a leak of fuel.

Very few incidents have led to fires, virtually none to explosions. In most cases a spillage occurs which requires clean-up to the local area.

2. Key historical evidence

Very few leaks have occurred to the UK pipeline system.

Leaks in other countries have mostly led to local spillage and subsequent clean-up.

3. Impact

Note: The Cabinet Office measures impact on a scale of 1 to 5.

Most likely impact is 2, small number of people affected, minor impact on environment with no lasting effects.

Worst case scenario is Impact level 3 – Moderate number of fatalities with casualties requiring hospitalisation and medical treatment.

Limited impact on environment with short-term or long-term effects.

4. Likelihood

Note: Nationally the Cabinet Office has given this risk a likelihood rating of 1.

Very few leaks have occurred in the UK. Impact level 3 event is estimated to be likelihood rating 1 Negligible – less than 1 in 20,000 chance in 5 years

5. Vulnerability

Likelihood of impact damage to fuel pipelines is higher in populated / suburban areas, but fuel pipelines are mostly routed through rural areas.

6. Overall Assessment

Hazard Threat category		Sub category	
Industrial Accidents and Environmental Pollution			
Impact	Likelihood	Risk	
3	1	MEDIUM	
Controls in Place			
Pipeline Safety Regulations require adequate emergency arrangement for loss or damage to fuel pipelines to be in place with the pipeline operator.			
Additional Risk Treatment Required			
None			