

		West Yorkshire Resilience Forum: Public Community Risk Register 2013					
Reference	Risk Category	Sub category	Outcome description	LEAD RESPONSIBILITY	Likelihood	Impact	Risk Rating
HL1	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Fire or explosion at a gas LPG or LNG terminal (or associated onshore feedstock pipeline) or flammable gas storage sites	Up to 3km around site causing (from 50) up to 500 fatalities and (150 to) 1500 casualties. Gas terminal event likely to be of short duration once feed lines are isolated; event at a storage site could last for days if the explosion damaged control equipment. Gas shortage not expected but some disconnections of intensive users. Disruption to transport services (road and rail) locally for up to a week and to provision of health services locally	Health and safety Executive / West Yorkshire Fire & Rescue Service	1	4	Medium
HL1	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Fire or explosion at a gas terminal or involving a gas pipeline	Up to 3 km around site causing up to 10 fatalities and und 100 casualties.	Health and Safety Executive	1	2	Low
HL25	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Fire or explosion at a gas terminal as well as LPG, LNG, and other gas onshore feedstock pipeline and flammable gas storage sites	Up to 1km around site causing up to 50 fatalities and und 150 casualties.	Health and safety executive	1	3	Medium
H2	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Fire or explosion at an onshore ethylene pipeline NO PIPELINES OF THIS NATURE WITHIN WEST YORKSHIRE	Up to 3 km around site causing up to 500 fatalities and up to 1500 casualties. NOT APPLICABLE IN WEST YORKSHIRE	Health and Safety Executive	N/a	N/a	N/a
HL26	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Localised fire or explosion at an onshore ethylene gas pipeline NO PIPELINES OF THIS NATURE WITHIN WEST YORKSHIRE	Up to 1km around site, causing up to 150 fatalities and 450 casualties. NOT APPLICABLE IN WEST YORKSHIRE	Health and Safety Executive	N/a	N/a	N/a
H3	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Fire or explosion at an oil refinery	Up to 3km around site causing (from 10) up to 500 fatalities and (from 150 to) 1500 casualties. Depending on the size of the release, the fire could burn for several days. Impact on the health service plus additional medical support might be required. With the loss of one refinery for a short period the UK could still continue without any shortages; however there would be increased pressure on other plants. NOT APPLICABLE IN WEST YORKSHIRE	Health and Safety Executive	N/a	N/a	N/a
HL27	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Localised Fire or explosion at an oil refinery	Up to 1km around site, causing up to 150 fatalities and 500 casualties. NOT APPLICABLE IN WEST YORKSHIRE	Health and Safety Executive	N/a	N/a	N/a
HLZ	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Industrial explosions and major fires	Up to 1km around site, causing up to 20 casualties, some of a serious nature. Explosions would cause primarily crush / cuts and bruise-type injuries, as well as burns.	Health and Safety Executive	2	2	Medium

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H4	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Fire or explosion at a fuel distribution site, or a site storing flammable and /or toxic liquids in atmospheric pressure storage tanks	Up to 3km around site causing (from 10) up to 150 fatalities and (100 to) 2000 casualties. Might be disruption to air transport in the short-term until fuel supply redirected. Short-term regional excessive demands on health care services. Closure of roads in locality for a short period of time.	Health and Safety Executive	1	4	Medium
HL28	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Localised fire or explosion at a fuel distribution site or tank storage of flammable and/or toxic liquids	Up to 1km around site causing up to 15 fatalities and up to 200 casualties.	Health and Safety Executive	1	4	Medium
H5	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Fire or explosion at an onshore fuel pipeline NO PIPELINES OF THIS NATURE WITHIN WEST YORKSHIRE	Up to 1 km around site causing up to 100 fatalities and up to 500 casualties. NOT APPLICABLE IN WEST YORKSHIRE	Health and Safety Executive	N/a	N/a	N/a
H6	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Fire or explosion at an offshore oil/gas platform	Local to site causing up to 200 fatalities and up to 200 casualties. NOT APPLICABLE IN WEST YORKSHIRE	Health and Safety Executive	N/a	N/a	N/a
HZ	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Explosion at a high pressure natural gas pipeline	Local to site causing up to 200 fatalities and hospitalising up to 200 people	Health and Safety Executive	1	3	Medium
HL30	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Localised Explosion at a natural gas pipeline	Causing up to 100 fatalities and up to 100 casualties	Health and Safety Executive	1	2	Low
H8	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Very large toxic chemical release <10km	Up to 10 km from site causing up to 2000 fatalities and 10000 casualties. Toxic release could be due to loss of containment of chlorine – or a number of other chemicals, e.g. anhydrous hydrofluoric acid, refrigerated ammonia, sulphur di-oxide (or tri-oxide) gas. Huge challenge to health care providers. Water supplies might be at risk. Contamination of land could lead to avoidance of certain foodstuffs.	Environment Agency / Health and Safety Executive	1	4	Medium

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National Risk Reference									
H9	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Large toxic chemical release <3km	Up to 3km from site causing up to 50 fatalities and up to 2000 casualties. This risk could result in environmental contamination with associated environmental impacts. Depending on the nature and extent of the contamination there could be impacts on air, land water, animal welfare, agriculture and waste management. This risk might require remediation and/or decontamination. Excessive demands on healthcare services locally both short term and long term. Water supplies might be at risk. Contamination of farm land could lead to avoidance of certain foodstuffs.	Environment Agency / Health and Safety Executive	1	4	Medium		
HL2	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Localised Industrial accident involving large toxic release e.g. from a site storing large quantities of chlorine	Up to 3km from site causing up to 30 fatalities and up to 250 casualties.	Health and Safety Executive	1	4	Medium		
HL3	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Localised Industrial accident involving toxic release	Up to 1km from site causing up to 10 fatalities and up to 100 casualties.	Health and Safety Executive	2	3	High		
H10	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Radioactive substance release from a nuclear reactor accident	The consequences of an accident at a nuclear reactor are a release of radioactive material. This release could have local, regional, national and international implications, with up to 10 immediate deaths estimated on site, and with long term casualties being estimated as being of the order 1500. NOT APPLICABLE IN WEST YORKSHIRE	Health and Safety Executive	N/a	N/a	N/a		
HL31	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Limited radioactive release from a nuclear accident	Up to 1 km from site causing up to 50 fatalities and 500 casualties NOT APPLICABLE IN WEST YORKSHIRE	Health and Safety Executive	N/a	N/a	N/a		
H11	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Accidental release of radioactive material from incorrectly handled or disposed of sources.	Up to 5 deaths and up to 100 contaminated people requiring medical monitoring. Many worried people may present at hospitals. Radiation may be spread over several kilometres, but concentration where source opened. This risk could result in environmental contamination with associated environmental impacts. Depending on the nature and extent of the contamination there could be impacts on air, land, water, animal welfare, agriculture and waste management. This risk may require remediation and/or decontamination	Environment Agency	1	4	Medium		

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H12 National Risk	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Biological substance release from facility where pathogens are handled deliberately (e.g. pathogen release from containment laboratory)	Up to 10 fatalities and serious injuries, or offsite impact requiring up to 1000 casualties	Health and Safety Executive	2	2	Medium	
H46	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Biological substance release during an unrelated work activity or industrial process (e.g. legionella release due to improperly maintained building environmental control systems)	Up to 10 fatalities and serious injuries or offsite impact resulting in up to 1000 casualties.	Health and Safety Executive	5	1	Low	
H14	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Major contamination incident with widespread implications for the food chain, arising from: • Industrial accident (chemical, microbiological, nuclear) affecting food production areas e.g. Chernobyl, Sea Empress oil spill, animal disease. • Contamination of animal feed e.g. dioxins, BSE. • Incidents arising from production processes, e.g. adulteration of chilli powder with Sudan I dye	There may be direct animal and consumer health effects arising from this incident. We assume a small number of fatalities (5) and casualties (50), although the public health implications of food incidents vary widely. It should be noted that events such as these, that cause an increase in exposure to human carcinogens, raise the risk of fatality even though the casualty cannot be identified. Additionally, there may be food production/marketing implications, depending on the scale and area affected (e.g. major shellfisheries, dairy, livestock production areas). Consumer confidence may also be affected leading to lost markets and, where staple products (e.g. bread or milk) are affected, potential panic buying.	Food Standards Agency	5	2	Medium	
H15	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Maritime Pollution	Spillage of 100,000 tonnes of crude oil into the sea polluting up to 200km of coastline. This risk could result in environmental contamination with associated environmental impacts. Depending on the nature and extent of the contamination there could be impacts on air, land, water, animal welfare, agriculture and waste management. This risk may require remediation and/or decontamination	MCGA	N/a	N/a	N/a	
			NOT APPLICABLE IN WEST YORKSHIRE					

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National Risk Reference	Risk Category	Sub category	Outcome description	LEAD RESPONSIBILITY	Likelihood	Impact	Risk Rating		
HL4	INDUSTRIAL ACCIDENTS & ENVIRONMENTAL POLLUTION	Major pollution of controlled waters	Pollution incident impacting upon controlled waters, (for example, could be caused by chemical spillage or release of untreated sewage) leading to persistent and/or extensive effect on water quality, major damage to aquatic ecosystems, closure of potable abstraction point(s), major impact on amenity (i.e. tourism) value, serious impact on human health.	Environment Agency	5	3	High		
HL33	INDUSTRIAL ACCIDENT & ENVIRONMENTAL POLLUTION	Forest or Moorland Fire	Forest or Moorland fire across up to 50 hectares. Evacuation of up to 100 residential homes required. Transport infrastructure disrupted for up to a day due to smoke. Fatalities are possible, depending on the recreational or occupational use of the area, with people may needing medical assistance due to the proximity of fire.	Fire and Rescue	2	2	Medium		
H42	TRANSPORT ACCIDENTS	Rapid accidental sinking of a passenger vessel in, or close to UK waters	500 fatalities and 1000 casualties, potentially with blockage of major sea-lane or port	MCGA	N/a	N/a	N/a		
HL34	TRANSPORT ACCIDENTS	Fire, Flooding, stranding or collision involving a passenger vessel in or close to UK waters or on inland waterways, leading to the ship's evacuation or partial evacuation at sea	Upto 50 Fatalities and up to 100 casualties	DfT	N/a	N/a	N/a		
HL8	TRANSPORT ACCIDENTS	Fire, Flooding, stranding or collision involving a passenger vessel in or close to UK waters or on inland waterways, leading to the ship's evacuation or partial evacuation	Up to 50 fatalities and up to 100 casualties.	DfT / British Waterways	1	2	Low		
HL37	TRANSPORT ACCIDENTS	release of significant quantities of hazardous chemicals / materials as a result of major shipping accident	Fatalities and casualties unlikely. Significant environmental / ecological damage. NOT APPLICABLE IN WEST YORKSHIRE	DfT	N/a	N/a	N/a		
H16	TRANSPORT ACCIDENTS	Aviation accident over a semi-urban area	Collision of two commercial planes with the death of all passengers and crew on aircraft (600 fatalities); up to 50 fatalities and 300 casualties on the ground. No significant damage to key infrastructure.	DfT / Leeds & Bradford International Airport	1	4	Medium		

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Reference	Risk Category	Sub category	Outcome description	LEAD RESPONSIBILITY	Likelihood	Impact	Risk Rating	
HL9	TRANSPORT ACCIDENTS	Aviation accident	Causing up to 50 fatalities and up to 250 casualties.	DfT / Leeds & Bradford International Airport	1	3	Medium	
HL10	TRANSPORT ACCIDENTS - LOCAL EVENT	Local accident on motorways and major trunk roads	Multiple vehicle incident causing up to 10 fatalities and up to 20 casualties (internal injuries, fractures, possible burns); closure of lanes or carriageways causing major disruption and delays.	West Yorkshire Police	5	2	Medium	
HL11	TRANSPORT ACCIDENT	Railway accident	Up to 30 fatalities and up to 100 casualties (fractures, internal injuries – burns less likely). Possible loss of freight. Major disruption to rail line including possible closure of rail tunnel.	DfT	2	2	Medium	
HL12	TRANSPORT ACCIDENT	Local accident involving transport of hazardous chemicals.	Up to 50 fatalities and up to 500 casualties (direct injuries from the accident would be similar to road or rail accidents; indirect casualties are possible, if substance covers wide area). The extent of the impact would depend on substance involved, quantity, nature and location of accident. The assumption is based on phosgene/ chlorine	Department of Transport West Yorkshire Fire and Rescue Service	1	3	Medium	
HL13	TRANSPORT ACCIDENT	Maritime accident or deliberate blockade resulting in blockage of access to key port, estuary maritime route for more than one month No such risks in West Yorkshire	Loss of port is likely to have an initial wider impact, but will quickly reduce as shippers seek alternative ports or methods of shipping. Economic impact on local dependent businesses. NOT APPLICABLE IN WEST YORKSHIRE	DfT / Port Authority	N/a	N/a	N/a	
HL14	TRANSPORT ACCIDENT	Local (road) accident involving transport of fuel/explosives	Up to 30 fatalities and up to 20 casualties within vicinity of accident/explosion. Area would require evacuating up to 1 km radius depending on substances involved. Potential release of up to 30 tonnes of liquid fuel into local environment, watercourses etc. Large quantities of fire fighting media (foam) would impact on environment. Roads and access routes impassable for a time. Emergency access into/out of large populated areas difficult or impossible.	West Yorkshire Fire and Rescue Service	1	3	Medium	
HL17	SEVERE WEATHER	Storms and Gales	Storm force winds affecting most of a region for at least 6 hours. Most inland, lowland areas experience mean speeds in excess of 55mph with gusts in excess of 85mph. Up to 50 fatalities and 500 casualties with short term disruption to infrastructure including power, transport networks, homes and businesses.	Meteorological Office	3	3	High	

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National Risk Reference	Risk Category	Sub category	Outcome description	LEAD RESPONSIBILITY	Likelihood	Impact	Risk Rating
H18	SEVERE WEATHER	Low temperatures and Heavy Snow	Snow falling and lying over most of the area for at least one week and after an initial fall of snow there is further snow fall on and off for at least 7 days. Most lowland areas experience some falls in excess of 10cm, a depth of snow in excess of 30cm and a period of at least 7 consecutive days with daily mean temperature below -3°C. Up to 1000 fatalities [excess deaths] and thousands of casualties, mainly amongst the elderly and there is likely to be some disruption to transport networks, businesses, power supply and water supply, and also school closures.	Meteorological Office	3	4	Very High
H48	SEVERE WEATHER	Heat wave (ex HE18, previously HL15)	Daily maximum temperatures in excess of 29°C and minimum temperatures in excess of 15°C over most of a region for at least 5 consecutive days [and nights]. Up to 1000 fatalities and 5000 casualties, mainly amongst the elderly. There could be disruption to power supply and transport infrastructure.	Meteorological Office	3	3	High
H50	SEVERE WEATHER	Drought	Periodic water supply interruptions affecting 385,000 businesses in London for up to 10 months. 'Emergency Drought Orders' in place authorising rota cuts in supply according to needs of priority users as directed SoFS. The 2.24 million households in London would not be subject to supply interruptions.	Yorkshire Water	2	1	Low
H19	SEVERE WEATHER	Flooding: Major coastal and tidal flooding affecting more than two UK regions	Major sea surge, tides, gale force winds and potentially heavy rainfall. Many coastal regions and tidal reaches of rivers affected. Excessive tide levels and many coastal and/or estuary defences overtopped or failing (breaches). Drains 'back-up'. Inundation from breaches in defence systems would be rapid and dynamic with minimal warning and no time to evacuate. Inundation from over-topping of defences would allow as little as 1 hour to evacuate. Widespread structural damage. Flooding of up to 300,000 properties (homes and businesses) for up to 14 days. People stranded over a large area. Up to 150 fatalities, 2000 'missing' persons ("missing" means: not accounted for during the first 48 hours, before Police can reunite with family or friends) and 2000 casualties. Up to 400,000 evacuees (the people requiring assistance with evacuation is less - 130,000. However people may be asked by Police to evacuate from areas that will be cut off due to flood water as well as those areas that are at risk of actual flooding). Up to 40,000 people in need of rescue or assistance in-situ over a 36 hour period. NOT APPLICABLE IN WEST YORKSHIRE		N/a	N/a	N/a

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	Risk Category	Sub category				
National Risk HL16	SEVERE WEATHER	Major, local coastal / tidal flooding	Outcome description	N/a	N/a	N/a
			Sea surge, spring tides, gale force winds and/or heavy rainfall affecting more than one Region, some defences overtopped or failing at multiple locations. Flooding of 1000 to 10,000 properties for up to 14 days. Up to 20 fatalities, 300 casualties and up to 200 missing persons. Up to 50,000 people (including tourists) in coastal villages and towns evacuated from flooded sites. People stranded over a large area and up to 5,000 people in need of rescue. Up to 10,000 people needing assistance with sheltering for up to 12 months. Multi-agency response invoked, possible large scale evacuation required. Suddenness of failure of defences would not be possible to predict. Tidal inundation would be rapid and wave impact would cause structural damage to properties. Impact on infrastructure includes: widespread disruption for 7-14 days, salt damage, road and bridge damage, debris and contaminated water supplies and pollutants from affected businesses. Rural impacts include: widespread livestock carcasses, waterborne disease. Sewage treatment works flooded. Numerous properties destroyed. Many more uninhabitable for 12 months. NOT APPLICABLE IN WEST YORKSHIRE			
HL17	SEVERE WEATHER	Significant local coastal / tidal flooding	Sea surge, high tides and/or gale force winds affecting the coastline and one Region, a defence system overtopped or failing at a single location. Localised impact with infrastructure affected and up to 1000 properties flooded for up to 14 days. Up to 10 fatalities, 150 casualties and up to 100 missing persons. Up to 20,000 people (including tourists) in coastal villages and towns evacuated from flooded sites. People stranded over a large area and up to 2,000 people in need of rescue. Up to 3,000 people needing assistance with sheltering for up to 12 months. Multi-agency response invoked with some local evacuation and cordoning off of affected areas. Tidal inundation would be rapid and wave impact would cause structural damage to properties. Impact on infrastructure includes: localised disruption for up to 7 days, salt damage, road damage, debris and contaminated local water supplies and pollutants from affected businesses. Rural impacts include: livestock carcasses, waterborne disease. Some properties destroyed and others uninhabitable for 12 months. NOT APPLICABLE IN WEST YORKSHIRE	N/a	N/a	N/a

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H21	SEVERE WEATHER	Flooding: Severe inland flooding affecting more than two UK regions	A single massive inland event or multiple concurrent regional events following a sustained period of heavy rainfall extending over two weeks (perhaps combined with snow melt or intense summer rainfall leading to widespread surface water flooding). The event would include major fluvial flooding affecting a large, single urban area. Closure of primary transport routes. Infrastructure failure. Loss of essential services (water, gas, electricity & telecom) to 250,000 homes and business for up to 14 days. Sediment movement and disruption to water supplies. Significant regional economic damage. Across urban and rural areas (with a greater proportion occurring in urban areas) flooding of up to 50,000 properties (homes and businesses) for up to 10 days. Up to 10 fatalities and 500 casualties and 20 missing persons ("missing" means: not accounted for during the first 48 hours, before Police can reunite with family or friends). Up to 55,000 people needing assistance with evacuation. Up to 6,000 people in need of rescue or assistance in-situ.	Environment Agency	3	3	High
HL18	SEVERE WEATHER FLOODING - LOCAL EVENT	Local / Urban flooding (fluvial, or surface runoff)	A sustained period of heavy rainfall extending over two weeks, perhaps combined with snow melt, resulting in steadily rising river levels across entire Counties and could threaten a large urban town. Localised flooding of 1000 to 10,000 properties for 2-7 days. Up to 15 fatalities and 150 casualties. Up to 15,000 people evacuated. Up to 500 people stranded over a large area and in need of rescue. There would be major impact on on road and rail links, making them impassable for up to 5 days. Impact on infrastructure includes: some building collapse, water damage, road and bridge damage. Sediment movement and contamination of water supplies. Loss of essential services (gas, electricity, telecoms) to 20,000 homes for up to 14 days. Widespread disruption for 7-14 days, significant debris and pollutants from affected businesses. Up to 1000 people needing assistance with sheltering for up to 12 months. Rural impacts include: widespread livestock carcasses, waterborne disease. Sewage treatment works flooded. Up to 50 properties destroyed and many more uninhabitable. Up to 2000 people needing assistance with sheltering for up to 12 months	Environment Agency	3	3	High

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HL19	SEVERE WEATHER	Local fluvial flooding	A sustained period of heavy rainfall extending over two weeks, perhaps combined with snow melt, resulting in steadily rising river levels within a region. Localised flooding of 100 to 1,000 properties for 2-7 days. Up to 5 fatalities and 50 casualties. Up to 5,000 people evacuated. Up to 200 people stranded over a large area and in need of rescue. There would be some impact on minor roads and some A roads and trunk roads impassable for a time. Some main rail lines may need to be closed for a week (for repairs etc) Most waterways would be closed to traffic because of strong currents and high water levels. Impact on infrastructure includes: water damage, road and bridge damage. Sediment movement and contamination of local water supplies. Localised loss of essential services (gas, electricity, telecoms) to 5,000 homes for up to 14 days. Up to 250 people needing assistance with sheltering for up to 12 months. Substantial disruption within a county for 7-14 days. Significant debris and pollutants clear-up needed.	Environment Agency	4	3	High	
HL20	SEVERE WEATHER	Localised extremely hazardous flash flooding	Heavy localised rainfall in steep valley catchments leading to extremely hazardous flash flooding. (e.g. high velocities and depths) Likely that no flood defences in place. Probably no flood warning service available/ suddenness of event means timely flood warnings not possible. Flooding of up to 200 properties. (NB the outcome is essentially the same as H44 - Dam or reservoir failure)	Environment Agency	5	3	High	
HL21	STRUCTURAL	Land movement (i.e. caused by tremors or landslides)	Roads and access routes impassable for a time. Emergency access into/out of large populated areas difficult or impossible; severe congestion over wide geographical area. Loss of power and other essential services over wide geographical area. Potential for a number of persons to be trapped or missing either in landslide itself and/or in collapsed structures. A number of fatalities are possible depending on the size and location of land movement, and the limitations of emergency access to injured persons.	West Yorkshire Fire and Rescue Service	1	2	Low	
HL22	STRUCTURAL	Building collapse	Potential for a number of persons to be trapped or missing. Localised loss of power and other essential services. Local access routes affected due to road closures. Depending on the size and construction of the building and occupation rate, there will always remain the possibility of fatalities or serious casualties.	West Yorkshire Fire and Rescue Service	1	3	Medium	
HL23	STRUCTURAL	Bridge collapse	Roads, access routes and transport infrastructure impassable for considerable length of time. Severe congestion over wide geographical area. Emergency access into/out of large populated areas severely restricted. Potential for a number of persons to be trapped or missing.	West Yorkshire Fire and Rescue Service	1	2	Low	

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National Risk								
H44.1	STRUCTURAL	Major reservoir dam failure caused by internal erosion or overtopping.	Complete destruction or serious damage to up to 200 downstream properties. Several thousand other properties could be flooded. Extent of downstream effect could reach 50-60km depending on topography. Up to 2000 fatalities could result though this would be mitigated by the extent of warning time given and evacuation taking place effectively.	DEFRA	2	2	Medium	
H44.2	STRUCTURAL	Major reservoir dam failure caused by complete collapse.	Collapse without warning resulting in almost instantaneous flooding. Significant movement of debris (including vehicles) and sediment. Complete destruction of some residential and commercial properties and serious damage of up to 500 properties. Several thousand other properties could be flooded. Up to 200 fatalities. Up to 1000 casualties. Up to 50 missing persons and people stranded. Hazardous recovery amongst collapsed infrastructure and debris. Water supply to homes and businesses lost. Up to 200 people need temporary accommodation for 2-18 months.	DEFRA	1	5	Medium	
H23	HUMAN HEALTH	Influenza type disease (pandemic)	Each pandemic is different and the nature of the virus and its impacts cannot be known in advance. Previous pandemics have led to different outcomes. Based on understanding of previous pandemics, a pandemic is likely to occur in one or more waves, possibly weeks or months apart. Each wave may last around 15 weeks. Up to half the population could be affected in a reasonable worst case scenario. High number of cases could overwhelm health and other critical services, and adversely affect business and the economy. Pandemic planning recognised a reasonable worst case scenario clinical attack rate of up to 50% spread over on or more waves with case fatality of up to 2.5%. This means, at the upper end of assumptions, up to some 750,000 excess deaths in the UK across the whole period of the pandemic and over 100,000 population per week at peak. Probable peak in weeks 6 to 8 following first case, with 22% of total cases occurring at the time.	HPA	4	4	Very High	
H24	HUMAN HEALTH	Emerging infectious diseases	Based on a SARS outbreak resulting in up to 100 fatalities and upto 2000 casualties.	HPA	1	2	Low	
HL24	HUMAN DISEASE	Localised legionella / meningitis outbreak	Localised outbreak of a disease which could cause up to 10 fatalities and up to 50 casualties.	HPA	4	2	Medium	

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H25	ANIMAL HEALTH	Non-zoonotic notifiable animal diseases (e.g. Foot and Mouth Disease (FMD), Classical Swine Fever, Blue Tongue and Newcastle disease of birds).	- The most serious disease in this category is FMD which drives the risk and outcome descriptions - A realistic worst case scenario might involve the culling and disposal up to 4 million animals across GB with up to 900 infected premises - For FMD whole of Great Britain is likely to be declared a 'controlled area', prohibiting the movement of all susceptible livestock unless licensed. - Disruption to rural communities, local economies, and the environment. - Significant impact on farm incomes and allied industries. For a major outbreak many rural industries, including tourism will be affected, impacts on tourism believed to have been overstated in previous assessments and current assessments assess this impact at £100 million. £400 million losses to the agriculture and food chain industry - Loss of disease free status resulting in EU and third country import bans on livestock and livestock products from susceptible animals - The major outbreak and realistic worst case scenarios are of much greater scale than that experienced in the most recent outbreak in 2007 but less than that experienced in 2001 due to changes in movement regimes and control policies	Animal Health DEFRA	1	2	Low

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H26 National Risk	ANIMAL HEALTH	Zoonotic notifiable animal diseases (e.g. Highly Pathogenic Avian Influenza (HPAI), Rabies and West Nile Virus).	- The most significant disease in this category is highly pathogenic avian influenza (HPAI) which drives the risk and outcome descriptions, although all these diseases can result in human death: - AI is largely a disease of birds. - The virus does not easily cross from birds to infect humans, although there is a theoretical risk of influenza virus reassortment if people with seasonal flu become co-infected with AI. - Potential human health threat (255 deaths from 408 cases worldwide since December 2003 (correct at 24 Feb 2009)) - Realistic worst case scenario based on the need to cull and dispose of up to 30 million poultry across GB - Loss of disease free status resulting in EU and third country import bans on poultry and captive birds and poultry products - Disruption to rural communities, local economies, tourism and the environment - Economic impacts for a major outbreak assessed at £60 million The major outbreak scenario is of much greater scale than that experienced in any of the recent outbreaks of avian influenza in the UK, where the disease has been contained and has been limited to one or two infected premises plus associated contact premises.	Animal Health DEFRA	1	3	Medium
HL42	INDUSTRIAL ACTION	Loss of cover due to industrial action by workers providing a service critical to the preservation of life (such as emergency service workers)	A number of three day strikes with significant support over a two month period affecting a single emergency service.	WYFRS/YAS	4	2	Medium
H30	INDUSTRIAL ACTION	Emergency services: loss of emergency fire and rescue cover because of industrial action.	A series of strikes by fire fighters takes place, spread over a period of two months, perhaps lasting up to 24 hours each.	WYFRS & CACFOA, CCS	3	2	Medium
H31	INDUSTRIAL ACTION	Significant or perceived significant constraint on the supply of fuel at filling stations e.g. industrial action by contract drivers for fuel, or effective fuel blockades at key refineries/terminals by protesters, due to the price of fuel	Filling stations, depending on their locations, would start to run dry between 24 - 48 hours. Panic buying would exacerbate the situation. Replenishment of sites would take between 3 - 10 days depending on location. Much would depend on whether drivers from other companies would be prepared to cross picket lines, whether companies judged that they were able to maintain safe operations in the presence of picket lines or protests, and the extent of the supply of fuel from other locations.	DECC / West Yorkshire Police	3	2	Medium

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Reference	Risk Category	Sub category	Outcome description	LEAD RESPONSIBILITY	Likelihood	Impact	Risk Rating
H33 National Risk	INDUSTRIAL ACTION	Unofficial strike action by prison officers leading to a serious shortfall in the number of personnel available to operate and maintain control of prisons	A single unofficial strike by around half prison officers lasting 24 hours	WYP / Prison Service / Ministry of Justice. CO	5	3	High
H35	INDUSTRIAL ACTION	Industrial action by key rail or London Underground workers	Strike action resulting in the total shut down of either London Underground, or the rail network on a national scale (eg. Action by key rail workers, eg. Infrastructure workers such as signallers) for more than 3 days. Greater impact if action occurs in a co-ordinated manner.	DfT	1	4	Medium
H37	INTERNATIONAL EVENTS	Influx of British Nationals who are not normally resident in the UK	Up to 10,000 British Nationals (BNs) returning to UK within a 4 -6 week period following conventional war, widespread civil unrest or sustained terrorism campaign against British and other Western nationals	FCO	4	2	Medium
H38	INDUSTRIAL TECHNICAL FAILURE (Hydrocarbons)	Technical failure of upstream (offshore) oil/gas network leading to a disruption in upstream oil and gas production.	Catastrophic accident destroying all parts of a critical upstream facility and, in the worst case, taking months or more to restore normal levels of service. This could result in a 15% loss of gas supply to UK which could impact on power generation if demand were high. As 40% of power is generated by gas fired stations then a reduction in generation might be felt. Downstream oil would not be so adversely affected given alternative means of supply.	DECC	3	3	High
H39	INDUSTRIAL TECHNICAL FAILURE (Water supply)	Failure of water infrastructure, or accidental contamination with a non-toxic contaminant.	Loss of, or non-availability for drinking, of the piped water supply, for up to 50,000 people, for more than 24 hours and up to 3 days.	Yorkshire Water	3	3	High
H49	INDUSTRIAL TECHNICAL FAILURE (Water supply)	Loss of drinking water supplies due to a major accident affecting infrastructure	Loss of, or non-availability for drinking, of the piped water supply, for a population of up to 350,000 for more than 24 hours and up to one week.	Yorkshire water / DEFRA	1	3	Medium
H40	INDUSTRIAL TECHNICAL FAILURE	No notice loss of telecoms infrastructure in a localised fire, flood or gas incident	Loss of telecoms for up to 100,000 people for up to 72 hours.	WYP / BT	5	3	High

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National Risk Reference	Risk Category	Sub category	Outcome description	LEAD RESPONSIBILITY	Likelihood	Impact	Risk Rating		
H41	INDUSTRIAL TECHNICAL FAILURE	Technical failure of electricity network (Blackstart)	Total blackout for up to 3-5 days due to loss of the National Grid. 3 days is best time. If there is damage to the network (say from storms) this timescale could be extended up to 5 days. Possible loss of life support machines, civil unrest, no alarms, street lighting, gas heating, rail transport, water supplies and mobile (PMT) telecommunications etc. Back up generators available for limited time for individual business and emergency services in some instances.	Northern Powergrid / DECC	2	5	High		
H43	INDUSTRIAL TECHNICAL FAILURE	Telecommunication infrastructure – human error	Widespread loss of telecommunications (including public land line and mobile networks) at a regional level for up to 5 days	CSIA / Bradford MDC	3	3	High		
H45	INDUSTRIAL TECHNICAL FAILURE	Technical failure of electricity network	Total shutdown of the electricity supply over an entire region of the UK occurring during the working week and lasting for 24 hours	DECC / Northern Powergrid	2	5	High		
WY1	INDUSTRIAL TECHNICAL FAILURE	Accidental failure at a sewage treatment works	Between 5,000 and 20,000 properties could be without sanitation for between 3 to 6 months. NEW: Complete failure of a sewage treatment works receiving sewage from between 5,000 and 20,000 properties could be without sanitation for between 3 to 6 months (Largely an environmental impact: Environmental impact increase on individual risk assessment) -	Yorkshire Water	1	2	Low		
WY2	PUBLIC PROTEST	Large scale public protest	Large scale public protests. Tens of thousands of highly motivated protesters, including a hard core of 2,000 protestors, causing physical damage, requiring a nationally coordinated police response.	West Yorkshire Police	2	2	Medium		
WY3	SEVERE WEATHER	Flash flooding - urban	Flash flooding emanating from surfaces, sewers, gullies, highways, culverts, becks, streams, ditches or private drains resulting from intense localised rainfall or from a burst water main. Up to 500 properties	Local Authorities / EA	4	3	High		
WY4	PUBLIC PROTEST	Public Protests within West Yorkshire	Large scale public protests. Several thousand highly motivated protestors, causing disruption to communities, requiring a local multi agency co-ordinated response to maintain public order	West Yorkshire Police	4	2	Medium		