



Humber Low Carbon Pipelines

Preliminary Environmental Information Report
Appendix 18.2 Major Accidents and Disasters
October 2022

nationalgrid

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Appendix 18.2: Risk Record

Entry No.	Major Accident or Disaster	Section of the Proposed Order Limits	Applicable Phase(s)	Receptor	Pathway	Reasonable Worst Consequence	Embedded Mitigation	Magnitude of Change	Likelihood	Justification	Significance
1	Pre-commissioning failure	Route-wide	C	The Project workforce	An electrical fault during pre-commissioning testing of the Pump Facility.	A loss of power to the surrounding area.	Appropriate risk assessments would be undertaken prior to any pre-commissioning work, and these would outline relevant measures to reduce the risk of pre-commissioning failure which would feed into the detailed	Medium	Small chance of occurring	A localised loss of electricity within the Pump Facility does not meet the criteria of a major accident. Nuisance only.	Not significant

Entry No.	Major Accident or Disaster	Section of the Proposed Order Limits	Applicable Phase(s)	Receptor	Pathway	Reasonable Worst Consequence	Embedded Mitigation	Magnitude of Change	Likelihood	Justification	Significance
							work procedures.				
2	Fire during construction activities	Construction compounds	C	The Project workforce and/or Project equipment	Ignition sources and combustible materials.	Fire contained within the construction site.	Appropriate plans and equipment for reducing risk of fire including evacuation strategy. Liaison with emergency services. Mandate use of fire reduction facilities.	Medium	Very small chance of occurring	A fire contained within the construction site does not meet the criteria of a major accident. Nuisance only.	Not significant
3	Presence of underground services/utilities	Route-wide	C and D	The construction workforce, neighbouring property, members of the	The striking of underground services/utilities.	A fire, explosion and/or electrocution affecting receptors. Also, there could potentially	Service searches would be undertaken to confirm the presence of utilities and services.	High	Very small chance of occurring	If all mitigation measures are correctly implemented, this is considered ALARP.	Not significant

Entry No.	Major Accident or Disaster	Section of the Proposed Order Limits	Applicable Phase(s)	Receptor	Pathway	Reasonable Worst Consequence	Embedded Mitigation	Magnitude of Change	Likelihood	Justification	Significance
				public and the surrounding environment.		be contamination to the surrounding environment and associated designations.	These would be bolstered by non-intrusive and intrusive surveys. Also, discussions would be conducted with landowners to confirm the presence of utilities and services				
4	Presence of overhead services/utilities	Route-wide	C and D	The construction workforce, neighbouring property and members of the public	The striking of overhead services/utilities.	Loss of electricity to the surrounding area and/or electrocution of a member of the Project Workforce.	Service searches would be undertaken to confirm the presence of utilities and services. Also, discussions	Medium	Very small chance of occurring	If all mitigation measures are correctly implemented, this is considered ALARP.	Not significant

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							would be conducted with landowners to confirm the presence of utilities and services.				
5	Fire and / or explosion at Drax Power Station (approx. 200 m south)	Drax AGI	Carbon Dioxide	The Project workforce, neighbouring property, members of the public and the River Derwent Special Area of Conservation (SAC)	Damage to AGI equipment which could potentially lead to a loss of containment of carbon dioxide and hydrogen for a limited period of time.	Carbon dioxide toxicity and dense white clouding and / or hydrogen explosion hazard affects neighbouring property, those people in the immediate area and/or contaminating the River	Drax Power Station site emergency plan, including effective to control/contain in the initiating event to prevent/reduce the risk of spread to nearby project infrastructure.	Very High	Very small chance of occurring	Could cause loss of life or permanent injury which requires ongoing disability support. Also, could cause permanent or long-lasting damage to environmental receptor(s) that cannot	Significant

Entry No.	Major Accident or Disaster	Section of the Proposed Order Limits	Applicable Phase(s)	Receptor	Pathway	Reasonable Worst Consequence	Embedded Mitigation	Magnitude of Change	Likelihood	Justification	Significance
						Derwent SAC.	Emergency procedures for carbon dioxide and hydrogen Project infrastructure .			be restored through minor clean-up and restoration efforts.	
6	Fire and / or explosion or at Jingye Steel (approx. 0km north-west)	British Steel AGI	Canal	The Project workforce, neighbouring property, members of the public and Manton and Twigmoor Site of Special Scientific Interest (SSSI).	Damage to AGI equipment which could potentially lead to a loss of containment of carbon dioxide and hydrogen for a limited period of time.	Carbon dioxide toxicity and dense white clouding and / or hydrogen explosion hazard affects neighbouring property, those people in the immediate area and/or contaminating the Manton and	Jingye Steel site emergency plan, including effective to control/contain in the initiating event to prevent/reduce the risk of spread to nearby project infrastructure . Emergency procedures	Very High	Very small chance of occurring	Could cause loss of life or permanent injury which requires ongoing disability support. Also, could cause permanent or long-lasting damage to environmental receptor(s) that cannot be restored	Significant

Entry No.	Major Accident or Disaster	Section of the Proposed Order Limits	Applicable Phase(s)	Receptor	Pathway	Reasonable Worst Consequence	Embedded Mitigation	Magnitude of Change	Likelihood	Justification	Significance
						Twigmoor SSSI.	for carbon dioxide and hydrogen Project infrastructure .			through minor clean-up and restoration efforts.	
7	Fire and / or explosion or at Phillips 66 (approx. 1.82 km south)	Killingholme AGI	Carbon Dioxide	The Project workforce, neighbouring property, members of the public and the River Humber SAC, SPA, Ramsar and SSSI.	Damage to AGI equipment which could potentially lead to a loss of containment of carbon dioxide and Hydrogen for a limited period of time.	Carbon dioxide toxicity and dense white clouding and / or hydrogen explosion hazard affects neighbouring property, those people in the immediate area and/or contaminating the River	Phillips 66 site emergency plan to control/contain in the initiating event to prevent/reduce the risk of spread to nearby project infrastructure . Emergency procedures for carbon	Very High	Very small chance of occurring	Could cause loss of life or permanent injury which requires ongoing disability support. Also, could cause permanent or long-lasting damage to environmental receptor(s) that cannot	Significant

Entry No.	Major Accident or Disaster	Section of the Proposed Order Limits	Applicable Phase(s)	Receptor	Pathway	Reasonable Worst Consequence	Embedded Mitigation	Magnitude of Change	Likelihood	Justification	Significance
						Humber SAC, SPA, Ramsar and SSSI	dioxide and hydrogen Project infrastructure .			be restored through minor clean-up and restoration efforts.	
8	Fire and / or explosion or at Prax Lindsey Oil Refinery Ltd (approx. 1.48km south)	Killingholme AGI	Canal	The Project workforce, neighbouring property, members of the public and the River Humber SAC, SPA, Ramsar and SSSI	Damage to AGI equipment which could potentially lead to a loss of containment of carbon dioxide and hydrogen for a limited period of time.	Carbon dioxide toxicity and fogging and / or hydrogen explosion hazard affects neighbouring property, those people in the immediate area and/or contaminating the River	Prax Lindsey Oil Refinery Ltd site emergency plan to control/control in the initiating event to prevent/reduce the risk of spread to nearby project infrastructure .	Very High	Very small chance of occurring	Could cause loss of life or permanent injury which requires ongoing disability support. Also, could cause permanent or long-lasting damage to environmental receptor(s)	Significant

Entry No.	Major Accident or Disaster	Section of the Proposed Order Limits	Applicable Phase(s)	Receptor	Pathway	Reasonable Worst Consequence	Embedded Mitigation	Magnitude of Change	Likelihood	Justification	Significance
						Humber SAC, SPA, Ramsar and SSSI	Emergency procedures for carbon dioxide and hydrogen Project infrastructure			that cannot be restored through minor clean-up and restoration efforts.	
9	Fire and / or explosion or at UM Storage Ltd (approx. 1.52km north-west)	Saltend AGI	Carbon Dioxide	The Project workforce, neighbouring property, members of the public and the River Humber SAC, Special Protection Area (SPA),	Damage to AGI equipment which could potentially lead to a loss of containment of carbon dioxide and hydrogen for a limited period of time.	Carbon dioxide toxicity and dense white clouding and / or hydrogen explosion hazard affects neighbouring property, those people in the immediate area and/or contamination	UM Storage Ltd site emergency plan to control/contain in the initiating event to prevent/reduce the risk of spread to nearby project infrastructure	Very High	Very small chance of occurring	Could cause loss of life or permanent injury which requires ongoing disability support. Also, could cause permanent or long-lasting damage to environmental receptor(s)	Significant

Entry No.	Major Accident or Disaster	Section of the Proposed Order Limits	Applicable Phase(s)	Receptor	Pathway	Reasonable Worst Consequence	Embedded Mitigation	Magnitude of Change	Likelihood	Justification	Significance
				Ramsar and SSSI.		g the River Humber SAC, SPA, Ramsar and SSSI	Emergency procedures for carbon dioxide and hydrogen Project infrastructure .			that cannot be restored through minor clean-up and restoration efforts.	
10	Fire and / or explosion or at INEOS Manufacturing Ltd (approx. 500m north-west)	Saltend AGI	Can O	The Project workforce, neighbouring property, members of the public and The River Humber SAC, SPA, Ramsar and SSSI.	Damage to AGI equipment which could potentially lead to a loss of containment of carbon dioxide and hydrogen for a limited period of time.	Carbon dioxide toxicity and dense white clouding and / or hydrogen explosion hazard affects neighbouring property, those people in the immediate area and/or contaminating the River Humber	INEOS Manufacturing Ltd site emergency plan to control/contain the initiating event to prevent/reduce the risk of spread to nearby project infrastructure . Emergency procedures for carbon	Very High	Very small chance of occurring	Could cause loss of life or permanent injury which requires ongoing disability support. Also, could cause permanent or long-lasting damage to environmental receptor(s) that cannot be restored	Significant

Entry No.	Major Accident or Disaster	Section of the Proposed Order Limits	Applicable Phase(s)	Receptor	Pathway	Reasonable Worst Consequence	Embedded Mitigation	Magnitude of Change	Likelihood	Justification	Significance
						SAC, SPA, Ramsar and SSSI	dioxide and hydrogen Project infrastructure			through minor clean-up and restoration efforts.	
11	Fire and / or explosion or at Air Products (BR) Ltd (approx. 880m north-west)	Saltend AGI	Carbon Dioxide	The Project workforce, neighbouring property, members of the public and The River Humber SAC, SPA, Ramsar and SSSI.	Damage to AGI equipment which could potentially lead to a loss of containment of carbon dioxide and hydrogen for a limited period of time.	Carbon dioxide toxicity and dense white clouding and / or hydrogen explosion hazard affects neighbouring property, those people in the immediate area and/or contaminating the River Humber SAC, SPA, Ramsar and SSSI	Air Products (BR) Ltd site emergency plan to control/contain the initiating event to prevent/reduce the risk of spread to nearby project infrastructure Emergency procedures for carbon dioxide and hydrogen Project	Very High	Very small chance of occurring	Could cause loss of life or permanent injury which requires ongoing disability support. Also, could cause permanent or long-lasting damage to environmental receptor(s) that cannot be restored through minor clean-up and	Significant

Entry No.	Major Accident or Disaster	Section of the Proposed Order Limits	Applicable Phase(s)	Receptor	Pathway	Reasonable Worst Consequence	Embedded Mitigation	Magnitude of Change	Likelihood	Justification	Significance
							infrastructure .			restoration efforts.	
12	Fire and / or explosion or at Mitsubishi Chemical UK Ltd (approx. 450m north-west)	Saltend AGI	Carbon Dioxide	The Project workforce, neighbouring property, members of the public and the River Humber SAC, SPA, Ramsar and SSSI.	Damage to AGI equipment which could potentially lead to a loss of containment of carbon dioxide and hydrogen for a limited period of time.	Carbon dioxide toxicity and dense white clouding and / or hydrogen explosion hazard affects neighbouring property, those people in the immediate area and/or contaminating the River Humber SAC, SPA, Ramsar and SSSI	Mitsubishi Chemical UK Ltd site emergency plan to control/contain the initiating event to prevent/reduce the risk of spread to nearby project infrastructure . Emergency procedures for carbon dioxide and hydrogen Project infrastructure .	Very High	Very small chance of occurring	Could cause loss of life or permanent injury which requires ongoing disability support. Also, could cause permanent or long-lasting damage to environmental receptor(s) that cannot be restored through minor clean-up and restoration efforts.	Significant

Entry No.	Major Accident or Disaster	Section of the Proposed Order Limits	Applicable Phase(s)	Receptor	Pathway	Reasonable Worst Consequence	Embedded Mitigation	Magnitude of Change	Likelihood	Justification	Significance
13	Fire and / or explosion or at Ineos Acetyls UK Ltd (approx. 500m north-west)	Saltend AGI	Can	The Project workforce, neighbouring property, members of the public and the River Humber SAC, SPA, Ramsar and SSSI.	Damage to AGI equipment which could potentially lead to a loss of containment of carbon dioxide and hydrogen for a limited period of time.	Carbon dioxide toxicity and dense white clouding and / or hydrogen explosion hazard affects neighbouring property, those people in the immediate area and/or contaminating the River Humber SAC, SPA, Ramsar and SSSI	Ineos Acetyls UK Ltd site emergency plan to control/contain in the initiating event to prevent/reduce the risk of spread to nearby project infrastructure . Emergency procedures for carbon dioxide and hydrogen Project infrastructure .	Very High	Very small chance of occurring	Could cause loss of life or permanent injury which requires ongoing disability support. Also, could cause permanent or long-lasting damage to environmental receptor(s) that cannot be restored through minor clean-up and restoration efforts.	Significant
14	Fire and / or explosion or	Saltend AGI	Can	The Project	Damage to AGI	Carbon dioxide	Saltend Chemical	Very High	Very small	Could cause loss of life or	Significant

Entry No.	Major Accident or Disaster	Section of the Proposed Order Limits	Applicable Phase(s)	Receptor	Pathway	Reasonable Worst Consequence	Embedded Mitigation	Magnitude of Change	Likelihood	Justification	Significance
	at Saltend Chemical Park Ltd (approx. 310m north-west)		domestic	workforce, neighbouring property, members of the public and The River Humber SAC, SPA, Ramsar and SSSI.	equipment which could potentially lead to a loss of containment of carbon dioxide and hydrogen for a limited period of time.	toxicity and dense white clouding and / or hydrogen explosion hazard affects neighbouring property, those people in the immediate area and/or contaminating the River Humber SAC, SPA, Ramsar and SSSI	Park Ltd site emergency plan to control/contain in the initiating event to prevent/reduce the risk of spread to nearby project infrastructure . Emergency procedures for carbon dioxide and hydrogen Project infrastructure .		chance of occurring	permanent injury which requires ongoing disability support. Also, could cause permanent or long-lasting damage to environmental receptor(s) that cannot be restored through minor clean-up and restoration efforts.	
15	Fire and / or explosion or at Vivergo Fuels Ltd (approx.	Saltend AGI	can domestic	The Project workforce, neighbouring	Damage to AGI equipment which could potentially	Carbon dioxide toxicity and dense white clouding and	UM Storage Ltd site emergency plan to control/conta	Very High	Very small chance of	Could cause loss of life or permanent injury which requires	Significant

Entry No.	Major Accident or Disaster	Section of the Proposed Order Limits	Applicable Phase(s)	Receptor	Pathway	Reasonable Worst Consequence	Embedded Mitigation	Magnitude of Change	Likelihood	Justification	Significance
	130m north-west)			property, members of the public and The River Humber SAC, SPA, Ramsar and SSSI.	lead to a loss of containment of carbon dioxide and hydrogen for a limited period of time.	/ or hydrogen explosion hazard affects neighbouring property, those people in the immediate area and/or contaminating the River Humber SAC, SPA, Ramsar and SSSI	in the initiating event to prevent/reduce the risk of spread to nearby project infrastructure . Emergency procedures for carbon dioxide and hydrogen Project infrastructure .		occurring	ongoing disability support. Also, could cause permanent or long-lasting damage to environmental receptor(s) that cannot be restored through minor clean-up and restoration efforts.	

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16	Fire and / or explosion or at Perenco UK Ltd (approx. 50m east)	Easington AGI	Canal	The Project workforce, neighbouring property, members of the public and the Dimlington Cliffs SSSI.	Damage to AGI equipment which could potentially lead to a loss of containment of carbon dioxide and hydrogen for a limited period of time.	Carbon dioxide toxicity and dense white clouding and / or hydrogen explosion hazard affects neighbouring property, those people in the immediate area and/or contaminating the River Humber SAC, SPA, Ramsar and SSSI	Perenco UK Ltd site emergency plan to control/contain in the initiating event to prevent/reduce the risk of spread to nearby project infrastructure . Emergency procedures for carbon dioxide and hydrogen Project infrastructure .	Very High	Very small chance of occurring	Could cause loss of life or permanent injury which requires ongoing disability support. Also, could cause permanent or long-lasting damage to environmental receptor(s) that cannot be restored through minor clean-up and restoration efforts.	Significant

Entry No.	Major Accident or Disaster	Section of the Proposed Order Limits	Applicable Phase(s)	Receptor	Pathway	Reasonable Worst Consequence	Embedded Mitigation	Magnitude of Change	Likelihood	Justification	Significance
17	Fire and / or explosion or at Centrica Storage Ltd (approx. 150m south)	Easington AGI	Construction	The Project workforce, neighbouring property, members of the public and the Dimlington Cliffs SSSI.	Damage to AGI equipment which could potentially lead to a loss of containment of carbon dioxide and hydrogen for a limited period of time.	Carbon dioxide toxicity and dense white clouding and / or hydrogen explosion hazard affects neighbouring property, those people in the immediate area and/or contaminating the River Humber SAC, SPA, Ramsar and SSSI	Centrica Storage Ltd site emergency plan to control/contain in the initiating event to prevent/reduce the risk of spread to nearby project infrastructure . Emergency procedures for carbon dioxide and hydrogen Project infrastructure .	Very High	Very small chance of occurring	Could cause loss of life or permanent injury which requires ongoing disability support. Also, could cause permanent or long-lasting damage to environmental receptor(s) that cannot be restored through minor clean-up and restoration efforts.	Significant

Entry No.	Major Accident or Disaster	Section of the Proposed Order Limits	Applicable Phase(s)	Receptor	Pathway	Reasonable Worst Consequence	Embedded Mitigation	Magnitude of Change	Likelihood	Justification	Significance
18	Fire and / or explosion or at Gassco AS UK Branch (approx. 100m south-east)	Easington AGI	Construction	The Project workforce, neighbouring property, members of the public and the Dimlington Cliffs SSSI.	Damage to AGI equipment which could potentially lead to a loss of containment of carbon dioxide and hydrogen for a limited period of time.	Carbon dioxide toxicity and dense white clouding and / or hydrogen explosion hazard affects neighbouring property, those people in the immediate area and/or contaminating the River Humber SAC, SPA, Ramsar and SSSI	Gassco AS UK Branch site emergency plan to control/contain in the initiating event to prevent/reduce the risk of spread to nearby project infrastructure . Emergency procedures for carbon dioxide and hydrogen Project infrastructure .	Very High	Very small chance of occurring	Could cause loss of life or permanent injury which requires ongoing disability support. Also, could cause permanent or long-lasting damage to environmental receptor(s) that cannot be restored through minor clean-up and restoration efforts.	Significant

Entry No.	Major Accident or Disaster	Section of the Proposed Order Limits	Applicable Phase(s)	Receptor	Pathway	Reasonable Worst Consequence	Embedded Mitigation	Magnitude of Change	Likelihood	Justification	Significance
19	Fires during operation	Route-wide	O	The Project workforce, neighbouring property, members of the public and environmental designations nearby.	Electrical equipment and other consumables in the AGI locations.	Carbon dioxide toxicity and dense white clouding affects neighbouring property, those people in the immediate area and environmental designations nearby.	Appropriate plans and equipment for reducing risk of fire including evacuation strategy and emergency response testing. Liaison with emergency services. Mandate use of fire reduction facilities.	High	Very small chance of occurring	The reasonable worst consequence of this event does not meet the criteria of a major accident.	Not significant

Entry No.	Major Accident or Disaster	Section of the Proposed Order Limits	Applicable Phase(s)	Receptor	Pathway	Reasonable Worst Consequence	Embedded Mitigation	Magnitude of Change	Likelihood	Justification	Significance
20	Unplanned release of hydrogen from pipelines or AGI	Route-wide	Operations and Decommissioning	The Project workforce, neighbouring property, members of the public and environmental designations nearby.	A release of hydrogen from a pipelines or AGI during operation, for example as a result of external interference with the pipelines either accidentally or deliberately and from operational errors.	Release of flammable gases which lead to fire/explosion hazards which could lead to serious harm to receptors.	There would be Emergency Shutdown trips located on the inlets of the Pipelines. In case of an unplanned release, this and other appropriate equipment and plans for reducing risk of a leak are developed as part of the Operations and Maintenance Philosophy. Appropriate emergency response	High	Very small chance of occurring	If all mitigation measures are correctly implemented, this is considered ALARP.	Not significant

Entry No.	Major Accident or Disaster	Section of the Proposed Order Limits	Applicable Phase(s)	Receptor	Pathway	Reasonable Worst Consequence	Embedded Mitigation	Magnitude of Change	Likelihood	Justification	Significance
							procedures, including evacuation plans would be produced.				

Entry No.	Major Accident or Disaster	Section of the Proposed Order Limits	Applicable Phase(s)	Receptor	Pathway	Reasonable Worst Consequence	Embedded Mitigation	Magnitude of Change	Likelihood	Justification	Significance
21	Unplanned release of carbon dioxide from pipelines or AGI during operation and decommissioning	Route-wide	Operation and Decommissioning	The Project workforce, neighbouring property, members of the public and environmental designations nearby.	A release of carbon dioxide from a pipelines or AGI during operation, for example as a result of external interference with the pipelines either accidentally or deliberately and from operational errors.	Asphyxiation and/or have toxic contamination effects, both of which could lead to serious harm to receptors in the vicinity.	There would be Emergency Shutdown trips located on the inlets of the Pipelines. In case of an unplanned release, this and other appropriate equipment and plans for reducing risk of a leak are developed as part of the Operations and Maintenance Philosophy. Appropriate emergency response	High	Very small chance of occurring	If all mitigation measures are correctly implemented, this is considered ALARP.	Not significant

Entry No.	Major Accident or Disaster	Section of the Proposed Order Limits	Applicable Phase(s)	Receptor	Pathway	Reasonable Worst Consequence	Embedded Mitigation	Magnitude of Change	Likelihood	Justification	Significance
							procedures, including evacuation plans would be produced.				

22	Cyber Attack	Route-wide	O	The Project workforce, neighbouring property, members of the public and environmental designations nearby.	Cyber infrastructure associated with the Project is attacked.	<p>Impacts could include:</p> <ol style="list-style-type: none"> 1. An unplanned shut down leading to a major event; 2. Overpressure of the pipelines; and 3. Shut down of carbon dioxide and/or hydrogen pipeline infrastructure that could affect the Connected Projects' ability to operate. <p>Any one of these impacts has the potential to negatively</p>	<p>The Project would be conducting appropriate risk assessments in-line with the National Cyber Security Centre's (NCSC) Cyber Assessment Framework and the systems supporting the Project would include suitable protective measures.</p>	High	Very small chance of occurring	If all mitigation measures are correctly implemented, this is considered ALARP.	Not significant
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						affect receptors.					
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23	Release of contaminated contents	Route-wide	D	The surrounding environment.	The longer-term degradation of the pipelines contaminating the surrounding environment.	Toxic contamination effects which could lead to serious harm to the surrounding environment.	Appropriate risk assessments would be undertaken prior to any decommissioning work, and these would outline relevant measures to reduce the risk of the release of contaminated contents. The outcomes of the risk assessments would also feed into the detailed work procedures. The Decommissioning Environmental Management Plan (DEMP) would set	Medium	Very small chance of occurring	If all mitigation measures are correctly implemented, this is considered ALARP.	Not significant
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							out a series of measures, based on environmental best practice guidance from a range of environmental disciplines, to control the environmental effects of the decommissioning of the Project.				
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24	Fires during Decommissioning	Temporary construction compounds	D	The Project workforce	Ignition sources and combustible materials.	Fire contained within the decommissioning site.	Appropriate plans and equipment for reducing risk of fire including evacuation strategy. Liaison with emergency services. Mandate use of fire reduction facilities.	Medium	Very small chance of occurring	A fire contained within the decommissioning site does not meet the criteria of a major accident. Nuisance only.	Not significant
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