The Drax Power (Generating Stations) Order

Land at, and in the vicinity of, Drax Power Station, near Selby, North Yorkshire

Environmental Statement
Appendix 16.3 - Construction - Environmental Risk Record

The Planning Act 2008
The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulation 5(2)(a)

Drax Power Limited

Drax Repower Project

Applicant: DRAX POWER LIMITED
Date: May 2018
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6.2.16.3 Environmental Statement – Volume 2 - Appendix 16.3 Construction – Environmental Risk Record

Pipeline Area

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C16	Collapse / damage to structures	Gas Pipeline	C	Listed building/historical interest (e.g. Scurff Hall) possible impact on setting.	Visual and physical impact.	CDM register	Impact on setting.						X		X		X	X	X			See indicated relevant ES Chapters in columns to left	N	Unlikely to impact built environment as proposed changes have to be approved by Historic England.		ALARP not considered as does not meet the criteria of a major accident

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C23	Collapse / damage to structures	Area I - Gas Receiving Facility	C	Restricted access causing difficulties with manoeuvring heavy construction plant. Increased traffic.	Construction activities adjacent to existing structures and Drax site entrance (vehicle impact)	CDM register	Collapse/impact leads to harm to members of public.						X			X	X		X			See indicated relevant ES Chapters in columns to left	Y	Could cause loss of life or permanent injury	Y	Will be addressed within the Pipeline Pre-construction Safety Reports and the Construction Traffic Management Plan.
C9	Exposure to asbestos	Gas Pipeline	C	Asbestos in ground from historical demolished agricultural structures.	Construction through existing contaminated land.	CDM register	Long term ill-health	X				X		X						X		See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The only potential		ALARP not considered as does not meet the criteria of a major accident

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
																								receptors of harm are construction workers. Possibility for off site impact if became airborne and carried off site.		
C5	Extreme weather (flood)	Gas Pipeline	C,M,O	Unknown conditions about watercourses where it will be diverted or additional infrastructure to be installed	Flood due to incorrect design	Flood Risk Assessment CDM Register	Flooding affecting neighbouring property.		X	X			X	X		X	X				X	See indicated relevant ES Chapters in columns to left	Y	Could cause damage to infrastructure and the built environment.	Y	Will be addressed within the Pipeline Pre-construction and Pre-Operation Safety Reports.

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C10	Extreme weather (flood)	Gas Pipeline	C	Open excavations.	Flood due to damage to infrastructure during construction	CDM register	Flooding affecting neighbouring property.		X	X			X	X			X				X	See indicated relevant ES Chapters in columns to left	Y	Could cause damage to infrastructure and the built environment.	Y	Will be addressed within the Pipeline Pre-construction Safety Reports.
C1	Fire and / or explosion or release of harmful gas	Gas Pipeline	C	Presence of underground services/utilities - sewers, gas, electricity, potable water, telecoms/data and surface/storm water drainage.	Presence of existing natural gas transmission pipelines along route (e.g. to residential properties, The Read School, etc.)	CDM register	Fire and/or explosion affects neighbouring property and/or members of the public.					X	X	X		X	X				X	See indicated relevant ES Chapters in columns to left	Y	Could cause loss of life or permanent injury; or significant structural property damage.	Y	Assuming: - Route of pipeline chosen to minimise crossover of other known buried services/utilities. - Route will be swept with a cable

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																									avoidance tool (CAT) prior to breaking ground. - Construction Phase H&S plan.
C4	Fire and / or explosion or release of harmful gas	Gas Pipeline	C	Unexploded ordnance	Presence of unexploded ordnance	Ground Conditions Report CDM Register	Fire and/or explosion affects neighbouring property and/or those people in the immediate area.			X			X			X	X					See indicated relevant ES Chapters in columns to left.	Y	Long lasting damage to the built environment.	Y	Assuming that a UXO survey prior to any opening of ground(e.g. GI, utilities) is completed.

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C13	Fire and / or explosion or release of harmful gas	Gas Pipeline	C,M,O	Ground subsidence leading to loss of containment.	Release of flammable gas from pipeline	CDM register Method Statements	Fire and/or explosion affects neighbouring property and/or those people in the immediate area.		X	X			X		X	X	X					See indicated relevant ES Chapters in columns to left	Y	Could cause loss of life or permanent injury. Could cause damage to infrastructure and the built environment.	Y	Will be addressed within the Pipeline Pre-construction and Pre-Operation Safety Reports.
C19	Fire and / or explosion or release of harmful gas	Gas Pipeline	C	Existing and future planning permissions	Inappropriate development in close proximity to Proposed Scheme.	CDM register	No sources of potential damage identified.										X					See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major		ALARP not considered as does not meet the criteria of a major accident

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																								accident. No sources of potential damage identified.		
C20	Fire and / or explosion or release of harmful gas	Gas Pipeline	C,M,O	New critical infrastructure	Terrorism	National Risk Register Security Vulnerability assessment	Multiple injuries including fatalities.			X			X	X	X	X	X						See indicated relevant ES Chapters in columns to left	Y	Could cause loss of life or permanent injury.	Y	Will be addressed within the Pipeline Pre-construction and Pre-Operation Safety Reports.

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C17	Harm to ecological receptors	Gas Pipeline	C	Ecological surveys are seasonal dependent and may need several months for a baseline	Insufficient time to identify sensitive receptors	CDM register	No sources of potential damage identified.			X												See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. No sources of potential damage identified.		ALARP not considered as does not meet the criteria of a major accident
C7	Harm to people	Gas Pipeline	C	Unknown contaminated land - e.g. Animal burial pits, plague pits, rats (Leptospirosis)	Contaminants and organisms harmful to human health.	Ground Conditions Report CDM Register	Ill-heath amongst contractors, DPL workers.					X		X		X	X			X		See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The		ALARP not considered as does not meet the criteria of a major accident

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																								only potential receptors of harm are construction workers.		
C11	Harm to people	Gas Pipeline	C	General early activities including ground investigation, traffic surveys, and all pre-construction surveys - Access to construction sites.	Contaminants and organisms harmful to human health. Traffic. Contaminated land	National Risk Register CDM Register	Harm to small number of construction / maintenance workers.										X					See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The only potential receptors of harm are construction / maintenance workers.		ALARP not considered as does not meet the criteria of a major accident

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C12	Harm to people	Gas Pipeline	C,M,O	Maintenance of pipeline equipment	Contaminants and organisms harmful to human health. Traffic. Contaminated land	CDM register Method Statements	Death and/or injury to maintenance workers.							X		X	X						See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The only potential receptors of harm are maintenance workers.		ALARP not considered as does not meet the criteria of a major accident
C14	Harm to people	Gas Pipeline	C	National Grid sub-stations adjacent to pipeline. Diversion and protection of oil-filled,	Live electrical cables	CDM register Method Statements	Death and / or injury to a member of the public									X	X					See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major		ALARP not considered as does not meet the criteria of a major accident

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
				HV power cables. Location of cables not all known/recorded.																				accident. The only potential receptors of harm are construction workers.		
C21	Harm to people	Gas Pipeline	C,M,O	Impact from construction activities alongside watercourses and flood zone 3	Flooding Excavations	CDM register	Harm to small number of construction / maintenance workers.														X	See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The only potential receptors of harm are construction workers.		ALARP not considered as does not meet the criteria of a major accident

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C22	Harm to people	Connection to National Grid	C,M,O	Connection into existing National Grid pipeline. - Construction activities	Natural gas.	CDM register	Fire and/or explosion affects neighbouring property and/or those people in the immediate area.										X					See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The only potential receptors of harm are construction workers.		ALARP not considered as does not meet the criteria of a major accident
C24	Harm to people	Gas Pipeline	C	Fire during construction activities	Ignition sources and combustible materials.	CDM register	Fire and/or explosion affects neighbouring property and/or those people in the immediate area.	X		X			X	X			X				X	See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major		ALARP not considered as does not meet the criteria of a major accident

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																								accident. The only potential receptors of harm are construction workers.		
C25	Harm to people	Area I - Gas Receiving Facility to main Drax	C	There is a risk that a substantial diversion of New Road will be required during laying of the gas pipeline fro Area I to the main site	Restricted road access.	Design Concept Report CDM Register	Nuisance complaints only.										X		X			See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The diversion would not cause any fatalities of permanent damage.		ALARP not considered as does not meet the criteria of a major accident

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C26	Harm to people	Area I - Gas Receiving Facility	C,M,O	Over-Head HV power lines cross the route of the pipeline at the GRF and compressor.	HV electricity	CDM register Method Statements	Death and/or injury to construction / maintenance workers.															See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The only potential receptors of harm are construction /maintenance workers.		ALARP not considered as does not meet the criteria of a major accident

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C2	Loss of power	Gas Pipeline	C	Presence of underground services/utilities - sewers, gas, electricity, potable water, telecoms/data and surface/storm water drainage.	Presence of electricity cables along route (route crossings)	CDM register	Loss of power affects neighbouring property and/or members of the public.									X	X					See indicated relevant ES Chapters in columns to left.	N	Unlikely to cause community wide power outage or damage to infrastructure which could cause a MA&D.	Y	Assuming: - Route of pipeline chosen to minimise crossover of other known buried services/utilities. - Route will be swept with a cable avoidance tool (CAT) prior to breaking ground. - Construction Phase H&S plan.

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C3	Major road traffic accident	Gas Pipeline	C	Additional road traffic during construction Transportation of excavated material Abnormal loads - practicalities, permissions and consents	Movement of construction vehicles along public roads and adjacent to public rights of way	CDM register	Death and / or injury to a member of the public	X					X			X	X	X	X			See indicated relevant ES Chapters in columns to left	Y	Could cause loss of life or permanent injury which requires ongoing disability support.	Y	Will be addressed within the construction health and safety plan, the Construction Traffic Management Plan, and CEMP.

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C18	Major road traffic accident	Gas Pipeline	C	Environmental Mitigation	Unmitigated construction activities with potential environmental impact	CDM register	Nuisance complaints only.			X			X		X		X	X	X			See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. No sources of potential damage identified.		ALARP not considered as does not meet the criteria of a major accident
C40	Major road traffic accident	Gas Pipeline	C	Pipeline installation beneath New Road	Construction activities associated with the installation of the pipeline	CDM register	Depression in road surface causing grounding of vehicles.									X	X		X			See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident.	Y	ALARP not considered as does not meet the criteria of a major accident

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C15	Overload of utilities	Gas Pipeline	C,O	New power and water supplies	Insufficient utilities supply level.	Design Concept Report CDM Register	Loss of power in surrounding area.				X				X		X					See indicated relevant ES Chapters in columns to left	N	Pre-planned installation approved by National Grid. Unlikely to cause community wide power outage or damage to infrastructure which could cause a MA&D.		ALARP not considered as does not meet the criteria of a major accident
C8	Physical damage or contamination of aquifer or borehole	Gas Pipeline	C,M,O	Unknown water abstraction points (e.g. Farm owned, disused industrial use) are close to	Construction through existing contaminated sites and presence of water abstraction boreholes along route	CDM register	Loss of drinking water supply			X		X		X		X	X				X	See indicated relevant ES Chapters in columns to left	Y	Long lasting damage to an environmental receptor.		Will be addressed within the Pipeline Pre-construction and Pre-Operation

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				pipeline - potential contamination of aquifer																					Safety Reports.

Construction on Power Station Site

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C12	Collapse / damage to structures	Construction on the Power Station Site	C	Restricted access causing difficulties with manoeuvring heavy construction plant. Increased traffic.	Construction activities adjacent to existing structures and Drax site entrance (vehicle impact)	CDM register	Collapse/impact leads to harm to members of public.									X	X		X			See indicated relevant ES Chapters in columns to left	Y	Could cause loss of life or permanent injury	Y	Addressed as part of the Construction phase H&S plan and the Construction Traffic Management Plan. Site MAPP

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C 5	Exposure to asbestos	Construction on the Power Station Site	C	Asbestos in ground from historical demolished site structures.	Construction through existing contaminated land.	CDM register	Long term ill-health to exposed construction workers and DPL staff in the immediate vicinity	X				X										See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The only potential receptors of harm are construction workers. Remote possibility for off site		ALARP not considered as does not meet the criteria of a major accident

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Maior accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
																								impact if became airborne and carried off site.		

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C24	Extreme weather (flood)	Construction on the Power Station Site	C	Construction of replacement sludge lagoons	Flood due to damage to infrastructure during construction	CDM register	Flooding affecting neighbouring property.		X	X			X	X		X	X				X	See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. Likely only cause a temporary reversible damage to infrastructure and the built environment.		ALARP not considered as does not meet the criteria of a major accident

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C 7	Fire and / or explosion or release of harmful gas	Operating Unit X and constructing Unit Y	C,M, O	Ground subsidence leading to loss of containment.	Release of flammable gas from pipeline	CDM register Safe Systems of Work	Fire and/or explosion affects neighbouring plant, equipment and/or those people in the immediate area.	X														See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The only potential receptors of harm are construction, operations and maintenance workers.		ALARP not considered as does not meet the criteria of a major accident

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C 1	Fire and / or explosion or release of harmful material	Construction on the Power Station Site- Excavations	C	Presence of underground services/utilities - sewers, gas, electricity, potable water, telecoms/data and surface/storm water drainage.	Presence of existing buried utilities on site.	CDM register	Harm to small number of construction workers.					X				X						See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The only potential receptors of harm are construction workers.		ALARP not considered as does not meet the criteria of a major accident
C 3 3	Harm to ecological	Construction on the Power	C,M, O	Materials and equipment	Release of contaminants	Flood Risk Assessment CDM register CEMP	Reversible on site soil contamination			X				X		X					X	See indicated relevant ES Chapters in	Y	Could cause damage to the	Y	Addressed as part of the CEMP

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	receptors	Station Site																				columns to left		environment.		
C 4	Harm to people	Construction on the Power Station Site	C	Unknown contaminated land	Contaminants harmful to human heath	Ground Conditions Report CDM register	Ill-heath amongst construction workers and DPL personnel in the area.					X		X						X		See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The only potential receptors of harm are construction workers.		ALARP not considered as does not meet the criteria of a major accident

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C 6	Harm to people	Operating Unit X and constructing Unit Y	C,M, O	Maintenance of Unit X services and equipment in proximity to construction routes and area related to Unit Y	Construction vehicles moving around site.	CDM register Construction Traffic Management Plan, Site Workplace Vehicle risk assessment	Death and/or injury to maintenance workers.												X			See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The only potential receptors of harm are maintenance workers.		ALARP not considered as does not meet the criteria of a major accident
C 14	Harm to people	Construction on the Power	C	Construction activities (e.g. overturning	Construction activities adjacent	CDM register Lifting Operations Plan	Collapse/impact leads to harm to construction and other									X						See indicated relevant ES Chapters in	N	The reasonable worst consequenc		ALARP not considered as does not meet the

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
		Station Site		of crane / dropped load) adjacent to operational areas of the existing structures.	to existing structures		workers in the vicinity.														columns to left		e of this event does not meet the criteria of a major accident. The only potential receptors of harm are constructio n workers and DPL staff.		criteria of a major accident

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C15	Harm to people	Construction on the Power Station Site	C	Removal of two existing 132kV pylons on the Power Station site.	Construction activities adjacent to overhead electrical systems	CDM register Lifting Operations Plan	Collapse/impact leads to harm to construction workers.									X						See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The only potential receptors of harm are construction workers.		ALARP not considered as does not meet the criteria of a major accident

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C16	Harm to people	Construction on the Power Station Site	C	Removal of two existing 132kV pylons on the Power Station site.	Construction activities adjacent to existing structures	CDM register Lifting Operations Plan	Collapse/impact leads to harm to construction and other workers in the vicinity.									X						See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The only potential receptors of harm are construction workers and DPL staff.		ALARP not considered as does not meet the criteria of a major accident

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C17	Harm to people	Construction on the Power Station Site	C	De-stringing adjacent pylons	Construction activities adjacent to existing structures	CDM register Lifting Operations Plan	Collapse/impact leads to harm to construction and others in the vicinity.									X	X					See indicated relevant ES Chapters in columns to left	Y	Could cause loss of life or permanent injury	Y	Addressed as part of the Construction phase H&S plan.
C18	Harm to people	Construction on the Power Station Site	C	De-stringing adjacent pylons	Construction activities adjacent to existing structures	CDM register Lifting Operations Plan	Collapse/impact leads to harm to construction and others in the vicinity.									X	X					See indicated relevant ES Chapters in columns to left	Y	Could cause loss of life or permanent injury	Y	Addressed as part of the Construction phase H&S plan.

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C19	Harm to people	Construction on the Power Station Site	C	Connection of each generating unit and its associated battery storage facility into the existing National Grid 400kW substation.	Electricity	CDM register	Death and/or injury to construction workers and National Grid personnel									X						See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The only potential receptors of harm are construction workers and NG staff.		ALARP not considered as does not meet the criteria of a major accident

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C20	Harm to people	Construction on the Power Station Site	C		Electricity	CDM register	Death and/or injury to construction workers and National Grid personnel									X						See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The only potential receptors of harm are construction workers and NG staff.		ALARP not considered as does not meet the criteria of a major accident

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C21	Harm to people	Construction on the Power Station Site	C	Diversion of PRoW	opposition groups	CDM register	Complaints from members of the public										X		X			See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The only potential receptors of harm are construction workers and DPL staff.		ALARP not considered as does not meet the criteria of a major accident

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C 2 2	Harm to people	Construction on the Power Station Site	C	Demolition of existing facilities on the power station site.	Falling objects	CDM register Demolition plan	Harm to small number of construction and other workers in the vicinity															See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The only potential receptors of harm are construction workers and DPL staff.		ALARP not considered as does not meet the criteria of a major accident

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C 2 3	Harm to people	Construction on the Power Station Site	C	Decommissioning of existing sludge lagoons.	Contaminants and organisms harmful to human health.	CDM register	Long term ill-health to exposed construction workers.					X										See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The only potential receptors of harm are construction workers.		ALARP not considered as does not meet the criteria of a major accident

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C25	Harm to people	Construction on the Power Station Site	C	Construction of replacement sludge lagoons	Contaminants and organisms harmful to human health.	Ground Conditions Report CDM register	Ill-heath amongst contractors, DPL workers.					X		X								See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The only potential receptors of harm are construction workers.		ALARP not considered as does not meet the criteria of a major accident

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C26	Harm to people	Construction on the Power Station Site	C	PRoW adjacent to construction activities.	Construction activities	CDM register	Non serious injury to a member of the public					X				X	X					See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident.		ALARP not considered as does not meet the criteria of a major accident

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C27	Harm to people	Construction on the Power Station Site	C	There is a risk that a substantial diversion of New Road will be required during the construction of a temporary pedestrian bridge over New Road.	Road closure and diversions	CDM register	Complaints from members of the public										X	X	X			See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The diversion would not cause any permanent serious harm to people's health.		ALARP not considered as does not meet the criteria of a major accident

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C13	Harm to people Possible spread to nearby plant	Construction on the Power Station Site	C	Fire during construction activities	Ignition sources and combustible materials	CDM register	Fire and/or explosion affects neighbouring plant, equipment and/or those people in the immediate area.	X												X	See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. The only potential receptors of harm are construction workers.		ALARP not considered as does not meet the criteria of a major accident

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C10	Investment to improve site risk control measures	Construction on the Power Station Site	C	Existing and future planning permissions	Inappropriate development in close proximity to Proposed Scheme.	CDM register	No sources of potential damage identified.															See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. No sources of potential damage identified.		ALARP not considered as does not meet the criteria of a major accident

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C 2	Loss of power	Construction on the Power Station Site - Excavations	C	Presence of underground services/utilities - sewers, gas, electricity, potable water, telecoms/data and surface/storm water drainage.	Presence of electricity cables in excavation areas	CDM register	Loss of power affects existing site operations leading to domino effects									X						See indicated relevant ES Chapters in columns to left	N	Unlikely to cause community wide power outage or damage to infrastructure which could cause a MA&D.		ALARP not considered as does not meet the criteria of a major accident

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C 3	Major road traffic accident	Construction on the Power Station Site	C	Additional road traffic during construction Transportation of excavated material Abnormal loads - practicalities, permissions and consents	Movement of construction vehicles along public roads and adjacent to public rights of way	CDM register	Death and / or injury to a member of the public	X								X	X	X	X			See indicated relevant ES Chapters in columns to left	Y	Could cause loss of life or permanent injury which requires ongoing disability support.	Y	Addressed as part of the Construction phase H&S plan. Site MAPP

ID	Risk Event (high level)	Proposed Scheme Aspect	Phase (C = Construction, O=Operational, M=Maintenance)	Hazard Description	Hazard sources and/or pathways	Documentation in which the event is/will be addressed	Reasonable worst consequence if event did occur	Air quality	Climate	Biodiversity	Electromagnetic interference	Health – See Cumulative Effects	Historic environment	Ground conditions	Landscape and visual	Major accidents and disasters	Socio-economics	Noise and vibration	Transport	Waste	Water resources, quality and hydrology	Embedded mitigation	Could this constitute a major accident or disaster?	Justification	Is this ALARP with existing mitigation?	Clarification
C 9	Major road traffic accident	Construction on the Power Station Site	C	Environmental Mitigation	Unmitigated construction activities with potential environmental impact	CDM register	On site nuisance complaints only.												X			See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. No sources of potential damage identified.		ALARP not considered as does not meet the criteria of a major accident

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C 8	Overload of utilities	Construction on the Power Station Site	C,O	New power and water supplies	Insufficient utilities supply level	Design Concept Report CDM register	Loss of power to site operations.															See indicated relevant ES Chapters in columns to left	N	The reasonable worst consequence of this event does not meet the criteria of a major accident. Unlikely to cause community wide power outage or damage to infrastructure which could cause a MA&D.		ALARP not considered as does not meet the criteria of a major accident