



Port Kembla Gas Terminal

Emergency Spill Plan Stage 2A Marine Berth Construction and Onshore Receiving Facilities

Australian Industrial Energy

25 October 2021



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Acronyms

Acronym	Definition	
AIE	Australian Industrial Energy	
Berth 101	MBD Site Compound	
CSSI	Critical State Significant Infrastructure	
CLM Act	Contaminated Land Management Act 1997	
DPIE	Department of Planning, Industry and Environment	
EIS	Environmental Impact Statement	
EMS	Environmental Management Strategy	
EPA	NSW Environment Protection Authority	
EP&A Act	Environmental Planning and Assessment Act 1979	
EPL No 21529	Environment Protection Licence	
FSRU	Floating Storage and Re-gasification Unit	
GHD	GHD Pty Ltd	
HSE	Health, Safety and Environment	
LNG	liquefied natural gas	
KPI	Key Performance Indicators	
MBD	Marine Berth Construction and Dredging	
MLAs	Marine Loading Arms	
ORF	Onshore Receiving Facilities	
PIRMP	Pollution Incident Response Management Plan	
РКСТ	Port Kembla Coal Terminal	
PKGT	Port Kembla Gas Terminal	
PKGT EIS	Port Kembla Gas Terminal Environmental Impact Statement	
POEO Act	Protection of the Environment Operations Act 1997	
POEO Waste Regulation	Protection of the Environment Operations (Waste) Regulation 2014	
PPE	Personal protective equipment	
SRD SEPP	State Environmental Planning Policy State and Regional Development	
The Project	Port Kembla Gas Terminal Project	

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1. Introduction

1.1 Overview

This Emergency Spill Plan has been developed as a sub-plan to the Port Kembla Gas Terminal Project (the Project) Environmental Management Strategy (EMS). This Emergency Spill Plan has been prepared by GHD Pty Ltd (GHD) on behalf of Australian Industrial Energy (AIE) to apply to construction activities associated with Stage 2A construction of the Project.

This Emergency Spill Plan interfaces with the other associated sub-plans, which together describe the proposed structure for environmental management and monitoring requirements for the Project. This Emergency Spill Plan addresses the requirements of the Port Kembla Gas Terminal Environmental Impact Statement (PKGT EIS) and associated Infrastructure Approval (SSI 9471) and Environmental Protection Licence (EPL) No. 21529.

1.2 Background

AIE is developing the Project which involves the development of a liquefied natural gas (LNG) import terminal at Port Kembla, south of Wollongong, NSW. The Project will be the first of its kind in NSW and will provide a simple and flexible solution to the state's gas supply challenges.

NSW currently imports more than 95 percent of the natural gas it uses from other eastern states. In recent years, gas supplies to the Australian east coast market have tightened, resulting in increased natural gas prices for both industrial and domestic users.

The Project provides an immediate solution to address the predicted shortages and will result in significant economic benefits for both the Illawarra region and NSW. The Project will have a capacity to deliver more than 100 petajoules of natural gas, equivalent to more than 70 percent of NSW gas needs and will provide between 10 to 12 days of natural gas storage in case of interstate supply interruption. LNG will be sourced from worldwide suppliers and transported by LNG carriers to the gas terminal at Port Kembla where it will be re-gasified for input into the NSW gas transmission network.

The Project has been declared Critical State Significant Infrastructure (CSSI) in accordance with Section 5.13 of the *Environmental Planning and Assessment Act 1979* (EP&A Act) (NSW) and Schedule 5 of the State Environmental Planning Policy State and Regional Development (SRD SEPP). The Project received Infrastructure Approval from the Minister for Planning and Public Spaces on 29 April 2019.

The construction of the Project is primarily associated with the establishment of a new berth facility at Port Kembla to enable an LNG carrier to berth alongside the Floating Storage and Re-gasification Unit (FSRU) and new infrastructure to connect the terminal to the existing gas network. Excavation and dredging would be required to establish the new berth facility, with spoil deposited in a cell (referred to as the 'Emplacement Cell') in the Outer Harbour.

The development has progressed to Stage 2A works located at Berth 101 (referred to as 'the site' or 'MBD Site Compound'). The Stage 2A works include land-based construction works associated with the Marine Berth Construction and Dredging (MBD) and Onshore Receiving Facilities (ORF). The Stage 2A works include:

- Completion of excavation works undertaken during Stage 1 (including transport of spoil materials to Emplacement Cell Construction Site).
- Construction of the quay wall at the MBD Site Compound.
- Construction of ORF at the MBD Site Compound (including construction of Wharf Topside Area, Utility Area, and Common Area).
- Installation and commissioning of power, communications, and potable water line.
- Installation of gas pipeline within the MBD Site Compound as part of ORF.

1.3 Purpose

This Emergency Spill Plan has been prepared in accordance with the PKGT EIS, Infrastructure Approval (SSI 9471) and EPL No. 21529. It describes how the management measures and commitments in the PKGT EIS and Infrastructure Approval (SSI 9471) relating to potential contamination of soils, groundwater and/or surface waters from spills are to be implemented by the Principal Contractor during Stage 2A construction of the Project. Specifically, this plan includes requirements to:

- Ensure the Principal Contractor implement industry best practice for the Stage 2A works.
- Comply with the requirements of the PKGT EIS; EPL No. 21529 and Infrastructure Approval (SSI 947).

AIE and its contractors acknowledge that maintaining effective spill management in the vicinity of the MBD Site Compound is paramount to the successful delivery of the construction phase of the Project. AIE is committed to ensuring this Emergency Spill Plan is reviewed and updated regularly to ensure its objectives are met and that the approval conditions outlined in the Infrastructure Approval (SSI 9471) and EPL No. 21529 are achieved.

This Emergency Spill Plan is applicable to all staff, employees, subcontractors, and any statutory service authorities undertaking the Stage 2A works described in Section 2 of this Emergency Spill Plan. The Emergency Spill Plan implementation and on-going development will be managed by the Project Team (refer to Section 3).

2. Project overview

2.1 Site description

The site of the Project is situated at Port Kembla within the Illawarra region of NSW, about 80 kilometres south of Sydney. Port Kembla is mainly characterised by an existing import and export terminal and multiple other business, cargo, logistics, bulk goods, and heavy industrial facilities in the vicinity.

Port Kembla is situated about two kilometres south of the centre of Wollongong. Other localities surrounding Port Kembla and the Project site include Mangerton, Mount St. Thomas and Figtree to the north-west; Unanderra to the west; Berkeley to the south-west; and Cringila, Lake Heights, Warrawong and the residential region of Port Kembla to the south.

The zoned land use in the region includes special use and industrial use at Port Kembla and a mix of primarily residential and commercial uses at the surrounding localities. Major infrastructure in the region of Port Kembla includes the Princes Highway, which is a major state and regional highway connecting Sydney and Wollongong and regional areas further south. Princes Highway provides access to Port Kembla through turnoffs at Masters Road, Five Islands Road and Northcliffe Drive and is broadly utilised including by heavy vehicles from the port.

The South Coast railway line runs along the periphery of Port Kembla including the stations Port Kembla, Port Kembla North, Cringila and Lysaghts. The rail line services commuters and is also used to transport bulk solid goods like coal, grain, copper and steel from Port Kembla. The environmental features of Port Kembla and the surrounding region are limited given the extensive industrial, commercial and residential development. Waterways in the region include the Gurungaty Waterway, Allans Creek, American Creek and Byarong Creek. Green space includes JJ Kelly Park and Wollongong Golf Club to the north and a larger open area to the south-west.

The Project will be predominantly located within land zoned for dedicated port and industrial uses. Berth and wharf facilities, as well as the FSRU, would be situated at Berth 101 at the Inner Harbour, while the gas pipeline would extend around the periphery of port operations from Berth 101 to a tie-in point at Cringila. The Emplacement Cell will be located in the Outer Harbour. A site overview is provided as Figure 2.1.



Figure 2.1 Site overview

2.2 Project construction scope of works

2.2.1 Overview

The Project construction scope of work has been divided into the three main packages (with associated activities), as outlined in Table 2.1. This Emergency Spill Plan applies only to the works associated with Stage 2A.

Stage	Package	Proposed commencement	Activities
1	Early Enabling Works	May 2021	Demolition of Berth 101, removal of structures and land based excavation works, and Cone Penetration Testing (CPT) in the Outer Harbour to inform Emplacement Cell design and relocation of Bunker Oil Pipeline.
2A	Marine Berth	January 2022	Completion of excavation works undertaken during Stage 1.
	Based		Transport of spoil materials for storage at the Emplacement Cell Construction Site.
			Quay wall construction.
	February 2022	Installation of communications conduit, potable water line, and 11kV power cable and Padmount Substation within MBD Site Compound.	
	April 2022	Construction of the ORF, which comprises three areas: Wharf Topside Area; Utility Area; and Common Area.	
		June 2022	Pipeline construction and associated ancillary infrastructure within MBD Site Compound delivered as part of ORF scope.
2B Marine Berth Construction and Dredging – Land and Marine Based	March 2022	Continuation of Stage 2A with addition of the following activities:	
	Construction and Dredging – Land and Marine Based	Excavation/dredging and construction of the Emplacement Cell in the Outer Harbour.	
		Marine based construction activities including installation of navigational aids and revetment shore protection.	
3	Pipeline Installation including tie-ins (NGP)	June 2022	Construction of an 18" onshore natural gas pipeline approximately 6.3km in length from the Berth 101 site boundary to Tie-in Facility at Cringila or connection to the Eastern Gas Pipeline.
			Pipeline construction to occur concurrently with Jemena, subject to separate set of management plans.

 Table 2.1
 Construction stages/work packages

The construction of Stage 2A works is located within the former Port Kembla Coal Terminal (PKCT) Bulk Products Berth (Berth 101). As part of the Early Enabling works the removal of existing structures and services and excavation was undertaken to facilitate subsequent development stages of the Project.

The following will be undertaken as part of the Stage 2A land-based works:

- Construction of the quay wall at MBD Site Compound incorporating finalisation of excavation works undertaken during Stage 1 (including transport of spoil materials to Emplacement Cell Construction Site).
- Installation of and commissioning of power, communications, and potable water line.
- Construction of ORF at MBD Site Compound (including construction of Wharf Topside Area, Utility Area, and Common Area).
- Installation of gas pipeline within the MBD Compound site.

An outline of the tasks associated with Stage 2A is provided in Section 2.3 through Section 2.5. The site of the works includes the MBD Site Compound with materials being transported to the Emplacement Cell Construction Site. The location of the Stage 2A works, MBD Site Compound, and the Emplacement Cell Construction Site is shown in Figure 2.2.



Figure 2.2 Stage 2A works and location of MBD Site Compound and Emplacement Cell Construction Site

2.2.2 Traffic

Traffic generated by Stage 2A will be controlled through the gate on Sea Wall Road. Heavy vehicle movements will be generated by the delivery of materials, equipment, and plant to the MBD Site Compound and transport of stockpiled material to the Emplacement Cell Construction Site.

There may be a requirement to transport and tip up to 8000m³ of crushed concrete and up to 2000m³ of crushed heavily bound base course to the Emplacement Cell Construction Site via road to increase the storage footprint area within the East Stockyard and to facilitate for later use during the construction of the Emplacement Cell.

The activities associated with this task will involve loading, road transportation via truck and trailer (approximately 30-tonne capacity), unloading, stockpiling, and management of the stockpiles.

Light vehicle movements will be generated from construction workers accessing the MBD Site Compound. Parking will be provided for up to 76 workers on the MBD Site Compound (refer to Figure 2.3).



Figure 2.3 Layout of MBD Site Compound

2.2.3 Program

The Stage 2A works are anticipated to commence in January 2022. Stage 2B which includes the continuation of land-based construction and water-based works) are then anticipated to commence in March 2022 (refer to Table 2.1.)

2.3 Construction of quay wall (MBD – Land Based)

A number of structures will be constructed within the MBD Site Compound to accommodate the FSRU and LNG carrier for the Project. Excavation and stockpiling activities from the Stage 1 Early Enabling Works will continue on-site during Stage 2A to lay the platform for ongoing construction activities at the MBD Site Compound.

The new structures that will commence construction during Stage 2A are summarised in Table 2.2. The location of the quay wall and layout of the marine berth and wharf facilities is shown in Figure 2.4.

Component	Works required
Earthworks and stockpiles	 Completion of excavation and backfilling works from Stage 1 Early Enabling Works.
	 A nominal 15-metre-wide section on the northern end and a circa 60-metre 'wedge' at the south- west corner of the excavation zone was left to facilitate contractor access and will required completion at commencement of Stage 2A.
	 Excavated materials from the Early Enabling Works have been stockpiled within the Eastern and Western Stockyards of the MBD Site Compound and the Emplacement Cell Construction Site.
	 The excavated materials stockpiled include:
	 Approximately 15,000m³ of demolished concrete crushed to nominal 70mm minus.
	 Approximately 30,000m³ of heavily bound base course crushed to nominal -150mm minus.
	• Approximately 25,000 ³ of mixed slag, general fill, and coal nominally < 150mm in size.
	 Approximately 10,000m³ of predominantly sand with some slag and coal.
	 The excavated materials will be used/reused for quay wall construction and to backfill the landside area of the quay wall or transported to the Emplacement Cell Construction Site for storage and use in construction of the Emplacement Cell.
Quay wall	 Construction of a new piled quay wall keyed into bedrock complete with sheet pile anchor wall, capping beam and tie rods to the south of the existing coal terminal.
	 Excavated and processed materials from the Stage 1 Early Enabling Works are stockpiled within the MBD Site Compound and will be used during construction of the quay wall and to backfill on landside area of the wall.
	 Installation of a marine fender system attached to the capping beam along the quay wall to protect the quay wall from berthing and mooring loads.
	 Installation of a cathodic protection system to the quay wall and associated elements, including assessment of the potential impacts the FSRU and pipeline cathodic protection will have on quay wall.
	- Backfilling and compaction on landside area of wall utilising the site stockpiled materials.
Mooring dolphins	 Installation of landside mooring dolphin structures on reinforced concrete platforms supported by steel piles.
	 Mooring equipment will be installed and comprise the following:
	20 load sensing quick release hooks.
	Up to four land-based mooring winches on mooring dolphins may be required.
	 Up to four swivel fairleads may be required to enable each mooring line to land-based winches to be fed in a horizontal alignment.
Marine Loading Arm foundations	Construction of a new reinforced concrete foundation supported on steel piles, located behind the new quay wall.
Gangway tower foundation	Construction of foundation for Gangway tower
Fire monitor foundation	Fire monitor foundations, subject to risk studies.

Table 2.2 Marine berth and wharf structures to be constructed during Stage 2A



Data source: Aerial imagery - nearmap 2021 (image date 05/09/2020, date extracted 20/10/2020); General topo - NSW LPI DTDB 2017 & 2015; Cadastre - NSW LPI DCDB 2017. Created by: jrprice

Figure 2.4 Location of quay wall and layout of MBD and ORF

2.4 Power, communications, and water connections

Works required for power, communications, and water connections are summarised in Table 2.3.

Component	Works required
Power and communications	 Construction and installation of a new 11kV power cable in a buried conduit and Substation.
	 Energisation of the Padmount Substation and 415kV Temporary Building Supply.
Potable water	 Extension of existing potable water line within MBD Site Compound.

Table 2.3 Construction of power connections for Stage 2A

2.5 Construction of ORF

The general layout of the ORF areas is shown in Figure 2.4. Works required for the three ORF areas are summarised in Table 2.4.

Table 2.4	Structures t	to be constructed	for ORF	during Stag	e 2A

Component	Works required			
Wharf Topside Area				
Marine Loading Arms (MLAs)	 Installation of MLAs, including: Civils and structures. Associated works such as piping, hydraulics, electrical, instrumentation, and auxiliary systems. 			
Piping and valving	 All necessary piping and valving. Odorant injection facilities. Pig launcher, downstream of the MLAs to tie-in to the Natural Gas Pipeline. 			
Gangway	 Gangway access tower to provide connection between the wharf and FSRU. 			
Utility connections	 FSRU utilities connections for: Communications. Marine Diesel Oil. Freshwater. Sewage, bilge, and grey water. 			
Utility Area				
Site Utilities	 Site utilities including: Potable water and sewerage. Instrument air and bottled nitrogen. Diesel storage. Electrical distribution (including UPS and emergency diesel generators). Control and instrumentation. Telecommunications. 			
Common Areas				
Firefighting systems and equipment	 Firefighting equipment including: Firewater storage. Pumps. Firewater monitors. 			
Security systems and equipment	 CCTV. Fencing and gates. Security access and monitoring systems. 			
Equipment housing	Equipment shelters and buildings to house:			

Component	Works required
	 Electrical, control, and operating equipment, critical spares, emergency response and site monitoring facilities.
	 Buildings will include appropriate building services e.g., HVAC, potable water, amenities, sewerage etc.
Site roadways, lighting and drainage	 Roads and car parking areas. General lighting, earthing, lightning system. Drainage system to tie into the existing Port Kembla drainage system.
Gas Pipeline	A section of gas pipeline will be installed within the MBD Compound site as part of the Stage 2A works. Final safety studies will be prepared prior to the construction of the gas pipeline and prior to commencement of operation as per Schedule 3, Condition 21 of Infrastructure Approval (SSI 9471).

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3. Roles and responsibilities

The Project Team is responsible for all activities associated with Stage 2A, including the implementation and maintenance of the various mitigation/management measures outlined in this Emergency Spill Plan. Relevant roles and responsibilities of the Project Team are outlined in Table 3.1.

Project Role	Responsibility
AIE Project Director	 Responsible for the overall funding and direction of civil and environmental works associated
· ····································	with Stage 2A.
	- Ensuring provision of adequate resources to achieve the environmental objectives for the
	project including ensuring sufficient resourcing for the Environmental Team, Engineering and Construction Teams
	Bragetively stowards the effective implementation of Stage 24 in second and with
Manager	requirements of the Infrastructure Approval (SSI9471), this Emergency Spill Plan, EMS, and
	all related Sub-Plans.
	 Demonstrate proactive support for environmental requirements.
AIE HSE Manager	 Develops and update all Health, Safety and Environmental (HSE) Management Strategies and Sub-Plans.
	 Ongoing liaison and engagement with government agencies and point of escalation for any environmental incidents.
	 Identifying environmental issues as they arise and proposing solutions.
	 Coordinate and facilitate weekly environmental inspections with the key contractors.
	 Environmental Reporting.
Principal Contractor	 On-site Project management and control.
Project Manager	 Decision-making authority relating to environmental performance of the construction program.
	- Authority over Project construction and site activities in accordance with the EMS.
	 Ensure relevant training is provided to all Project staff prior to commencing individual activities.
	 Reports to AIE Construction Manager on environmental matters.
	 Ensures appropriate Contractor resources are allocated to implement the environmental requirements.
	 Responsible for planning and scheduling of construction, and to ensure operations are conducted in accordance with statutory requirements and the EMS.
	– Monitors performance against environmental Key Performance Indicators (KPI's).
	- Ensures that all environmental objectives associated with the Project are achieved.
	 Day-to-day decision-making authority relating to environmental performance of construction activities and direct site activities and construction.
	- To provide resources to ensure environmental compliance and continuous improvement.
	 Ensure all personnel are aware of any changes to EMS, this Emergency Spill Plan and improved procedures.
	- Ensure this Emergency Spill Plan is implemented for the duration of Stage 2A.
Principal Contractor Construction Foreman	 Implement requirements contained in the EMS and Sub-Plans, work procedures and standard drawings.
	 Maintaining open and transparent communication with other Project discipline managers and other areas of the Project.
	 Reporting of hazards and incidents and implementing any rectification measures.
	 Ensures appropriate contractor resources are allocated.
	 Orders STOP WORK for any environmental breaches and reports incidents to the Project Manager.
	- Ensure this Emergency Spill Plan is implemented for the duration of Stage 2A.

Table 3.1 Roles and responsibilities of Project Team

Project Role	Responsibility
Principal Contractor Environmental Representative	 Delivers environmentally focussed toolbox talks and provides applicable site inductions. Provides environmental advice, assistance, and direction to Project Manager to ensure construction activities are conducted in accordance with regulatory legislation and this EMS.
	 Participate and cooperate with AIE HSE Manager with regards to undertaking of joint weekly environmental site inspections.
	 Coordinate / undertake wet-weather inspections as per EPL No. 21529 and report accordingly to the AIE HSE Manager.
	 Develop strong working relationships with the AIE team and Consultants.
	 Ensure environmental risks are appropriately identified, communicated, and effectively managed.
	- Ensure communication of relevant environmental information to Project personnel.
	 Provide specialist advice and input as required.
	 Ensure construction manager, superintendents and field supervisors fully understand the environmental constraints and how construction practices must ensure any such constraints are considered and mitigated against during construction.
	 Orders STOP WORK for any environmental breaches and immediately reports incidents to Principal Contractor Project Manager and AIE HSE Manager.
AIE Environmental	- Develop strong working relationships with the Principal Contractor Team and Consultants.
Representative	 Ensure environmental risks are appropriately identified, communicated, and effectively managed.
	 Instruct and advise management team on compliance issues.
	 Provide specialist advice and input as required.
	 Co-ordinate internal audits of this Emergency Spill Plan.
	 Conduct audit review as required.
	 Reports on the performance of this Emergency Spill Plan and recommends changes or improvements to Project Manager.
	 Orders STOP WORK for any environmental breaches and immediately reports incidents to the AIE Construction Manager and AIE HSE Manager.
	 Conducts investigation and response to environmental complaints and inquiries, where required.
Subcontractors and	 Undertake an environmental induction prior to accessing to site.
construction personnel	 Comply with legislative requirements.
	 Participate in weekly inspections and audits.
	 Follow environmental procedures.
	 Report all environmental incidents and hazards.
	 Introduce environmental topics to prestart meetings.
	- Ensure that all relevant permits and clearances are in place prior to commencing work.

4. Legislative requirements

The legislative requirements applicable to Stage 2A are listed in Table 4.1.

Table 4.1	Legislation and relevant policy applicable to this Emergency Spill Plan
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Legislation and Regulation	Description	Applicability		
State				
Protection of the Environment Operations Act 1997 (POEO Act)	The objectives of the POEO Act are to protect and enhance the environment of NSW with regard to the need for ecologically sustainable development. The Act provides mechanisms to reduce risks to human health and the degradation of the environment, including pollution prevention and cleaner production. Environment protection notices are outlined in Chapter 4, including details regarding clean-up notices for suspected pollution incidents occurring. Part 5.1 outlines classification of offences, including water pollution, leak and spills, and land pollution. The POEO also outlines the Scheduled Activities that require an EPL in order to be carried out.	The NSW Environment Protection Authority (EPA) have issued a licence for the Project, EPL No. 21529, which outlines the spill and pollution requirements (including criteria) specified by the licence. Activities undertaken onsite must not contribute to environmental degradation and must not exceed the standards. If an incident does occur it must be notified to the regulatory authority, the NSW EPA under Part 5.7. In the event a clean-up notice is issued it must be complied with.		
Protection of the Environment Operations (Waste) Regulation 2014 (POEO Waste Regulation)	The POEO Waste Regulation provides regulations for the storage, management and transport of waste. The POEO Waste Regulation repealed the 2005 Waste Regulation, amending the thresholds for EPLs and waste levy system.	The Waste Levy Guidelines outline the requirements for waste management for various activities. Guideline 3 is applicable to demolition and excavation waste streams.		
Contaminated Land Management Act 1997 (CLM Act)	The CLM Act establishes the process for investigating and remediating land the NSW EPA considers to the significantly contaminated. The CLM Act also manages contaminated land with regard to ecologically sustainable development.	Part 4 outlines the requirements for site audits made as a requirement of development consent for a project. Section 5 outlines the requirements of the Infrastructure Approvals related to the Projects site audit conditions. There is a duty for landowners to, and persons who have responsibility for contamination to notify the EPA under Section 60 of the CLM Act. Notification must be undertaken as soon as practicable after the owner becomes aware of contamination.		

5. Planning requirements

The planning requirements and the corresponding emergency spill management measures applicable to Stage 2A are listed in Table 5.1. Management measures are detailed in Section 7 and Section 8.

The planning requirements include the conditions set out in the Infrastructure Approval (SSI 9471) dated 24 April 2019, EPL No. 21529 and the mitigation/management measures outlined in the PKGT EIS.

Table 5.1Approval conditions

Requirement	Reference	Responsibility	Evidence	Applicability to this Emergency Spill Plan
Infrastructure Approval conditions				
Environmental Management Strategy	Schedule 4, Condition 1	AIE HSE Manager	Refer to EMS	Applicable
Prior to the commencement of construction, the Proponent must prepare an Environmental Management Strategy for the development to the satisfaction of the Planning Secretary.				
This strategy must:				
 (a) provide the strategic framework for environmental management of the development 				
(b) identify the statutory approvals that apply to the development				
(c) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development				
(d) describe the procedures that would be implemented to:				
 keep the local community and relevant agencies informed about the development being carried out 				
 receive, handle, respond to, and record complaints 				
 resolve any disputes that may arise during the course of the development 				
respond to any non-compliance			Section 10.5	Applicable
 respond to emergencies; and 			Section 7	
			Section 8	
			Section 11	
(e) include:			Refer to EMS	Applicable
 copies of any strategies, plans and programs approved under the conditions of this approval; and 				
 a clear plan depicting all the monitoring to be carried out in relation to the development. 				
Incident Notification	Schedule 4, Condition 5	– AIE HSE Manager	Section 11	Applicable
The Department must be notified in writing to compliance@planning.nsw.gov.au immediately after the Proponent becomes aware of an incident on site. The		 Principal Contractor Project Manager 		
notification must identify the development, including the application number, and set out the location and nature of the incident.		 Principal Contractor Environment Rep 		

Requirement	Reference	Responsibility	Evidence	Applicability to this Emergency Spill Plan
		 Principal Contractor Construction Foreman 		
Non-compliance Notification The Department must be notified in writing to compliance@planning.nsw.gov.au within 7 days after the Proponent becomes aware of any non-compliance. The notification must identify the development, including the application number, set out the condition of approval that the development is non-compliant with, the way in which it does not comply, the reasons for the non-compliance (if known) and what actions have been taken, or will be taken, to address the non-compliance.	Schedule 4, Condition 6	 AIE HSE Manager Principal Contractor Project Manager Principal Contractor Environment Rep Principal Contractor Construction Foreman 	Section 11.1.3	Applicable
EIS Management Measures				
A site-specific emergency spill plan will be developed and will include spill management measures in accordance relevant EPA guidelines. The plan will address measures to be implemented in the event of a spill, including initial response and containment, notification of emergency services and relevant authorities (including Roads and Maritime and EPA officers)	EIS Measure W11	 AIE HSE Manager Principal Contractor Environment Rep 	This plan	Applicable
An emergency spill kit will be kept on site at all times. All staff will be made aware of the location of the spill kit and trained in its use.	EIS Measure W12	 AIE HSE Manager Principal Contractor Project Manager Principal Contractor Environment Rep Principal Contractor Construction Foreman Subcontractors and construction personnel 	 Section 7 Section 8 	Applicable
Machinery will be checked daily to ensure there is no oil, fuel or other liquids leaking from the machinery. All staff will be appropriately trained through toolbox talks for the minimisation and management of accidental spills.	EIS Measure W13	 Principal Contractor Environment Rep Principal Contractor Construction Foreman Subcontractors and construction personnel 	Section 8	Applicable

6. Environmental aspects and impacts

Environmental aspects and possible environmental impacts associated with Stage 2A are listed in Table 6.1.

 Table 6.1
 Environmental aspects and possible impacts

Activity	Aspects	Possible environmental impacts
Storage, handling and use of hazardous substances and dangerous goods	Spillage of hazardous chemicals (i.e., fuel line break, refuelling spills)	 Spillage of hazardous chemicals may result in: Soil and water pollution. Affect flora/ fauna or human health. Affect visual amenity. Compliance issues, resulting in prosecution. Increased costs for remediation. Community concerns.

7. Land-based spill response plan

The correct sequence of response actions that will be implemented in the event of a land-based spill are detailed in Table 7.1.

	Step	Action
1	Safety and detection	 Assess safety of situation for yourself and others. If you cannot identify the substance, evacuate immediately and follow Step 4. If there is a risk of fire or explosion, evacuate immediately and follow Step 4. Shut off ignition sources(s) if safe to do so.
2	Trace source	 Put on appropriate Personal protective equipment (PPE) Trace the source of the spill Determine if spill is continuing.
3	Stop or control	 Stop or control the leakage by shutting the valves, plugging holes, moving mobile equipment – only if it is safe to do so.
4	Emergency notification	 Refer to Incident and Emergency Response Management Plan for contact details – these will be prominently displayed around the site compound and office.
5	Secure area	Divert traffic and people away from the immediate area.Evacuate if necessary.
6	Contain	 Contain the leakage using temporary bunds, booms, spill material etc.
7	Recover protocol	 Recover any free liquid into purpose-built tankers if possible. Recover absorbent materials i.e., booms.
8	Clean Up	 Clean up the spill by pumping, absorbing, chemically treating. Never spread or dilute spills with degreases, detergents or water.
9	Dispose	 Dispose of all spill product in accordance with the EMS. Contaminated soil should be removed to an appropriate facility following consultation with the environmental representative.
10	Report	 Report the incident to your supervisor who will then notify the environmental representative. The AIE HSE Manager will notify the appropriate agencies and groups.
11	Replace used equipment	 Any equipment or materials consumed in the clean-up operation should be replaced as soon as possible.
12	Monitor	 Monitor the spill site to validate clean up and impact on the environment.

 Table 7.1
 Land based spill response action sequences

8. Water-based spill response plan

The correct sequence of response actions that will be implemented in the event of a water-based spill are detailed in Table 8.1.

	Step	Action
1	Safety and detection	 Assess safety of situation for yourself and others.
		 Restrict access to the spill area (rope off, tape, bollards, cones, barriers etc) as appropriate.
		 If you cannot identify the substance, evacuate immediately and follow Step 2.
		 If there is a risk of fire or explosion, evacuate immediately and follow Step 2.
		 Shut off ignition sources(s) if safe to do so.
2	Emergency notification	Refer to Incident and Emergency Response Management Plan for contact details – these will be prominently displayed around the site compound and office.
3	Trace source	 Put on appropriate PPE.
		 Trace the source of the spill.
		 Determine if spill is continuing.
4	Stop or control	Stop or control the leakage by shutting the valves, plugging holes, moving mobile equipment – only if it is safe to do so.
5	Secure area	 Divert traffic and people away from the immediate area.
		 Evacuate if necessary.
6	Control	 Source of the spill to be isolated to prevent spill from becoming larger and spreading outside project boundary and into drains, surface water or unsealed areas.
		 Containment booms to be used to contain spill and prevent spreading in water.
7	Clean up	 Clean up spill using appropriate method depending on type of spill, such as:
		Skimmers or oil scoops.
		Oil and fuel absorbent booms.
		Oil and fuel absorbent pads.
		 Used absorbent materials including booms, sorbent materials etc are to be placed in disposable bags, tied and safely stored until appropriate disposal method is determined.
8	Disposal	 Dispose of all spill product in accordance with the EMS.
		 Method of disposal dependent on the nature and extent of the spill.
9	Report	 Report the incident to your supervisor who will then notify the environmental representative.
		 The AIE HSE Manager will notify the appropriate agencies and groups, including NSW EPA.
10	Replace used equipment	Any equipment or materials consumed in the clean-up operation should be replaced as soon as possible.
11	Monitor	Monitor the spill site to validate clean up and impact on the environment.

 Table 8.1
 Water based spill response action sequences

9. Communication and complaints

Effective communication between the Principal Contractor and construction personnel, AIE project team, subcontractors and external stakeholders will be undertaken throughout the Project to ensure effective implementation of this Emergency Spill Plan.

Project communication can be categorised into internal and external communications, as well as communications specifically dealing with complaints. The specific communication methods for each category are discussed below.

9.1 Internal communications

Communication on environmental issues related to spills within the Project team will be maintained, as a minimum, through the following forums (organiser as noted):

- Weekly project construction team meetings (AIE Construction Manager or delegate).
- Weekly Environmental management team meetings with relevant contractors (AIE HSE Manager or Delegate).
- Toolbox talks and daily pre-start briefings (Principal Contractor Project Manager or delegate).
- Minutes of formal meetings will be taken and distributed to record issues raised and actions required, with action status established at subsequent meetings.
- Monthly review of the internal AIE Environmental Compliance Tracking register (AIE HSE Manager or delegate).

All internal meetings include appropriate documentation in the form of agenda and formal distribution via the Project's document system.

In addition to the above, the AIE Environment Team will also undertake informal planning sessions and resource review meetings to plan and forecast for upcoming key construction dates, critical issues and other relevant matters associated with environmental planning and approvals.

9.2 External communications

AIE is committed to keeping the local community and relevant agencies informed about the development of the Project. The principal external communication objectives are, therefore, to:

- Continue to maintain open communication with relevant stakeholders.
- Minimise environmental impacts.
- Be proactive in addressing any concerns that the community / external stakeholder may express.

AIE will build upon the stakeholder and community engagement phase undertaken during project development including multiple group or one on one briefings. A project website (www.ausindenergy.com) has been developed and provides comprehensive, clear, and accessible information that is updated on a regular basis.

As well as the local Port Kembla and broader community of the Wollongong region, extensive engagement was also undertaken with a range of other interested key stakeholders, such as local commerce organisations, the Port Authority of NSW and local and state government.

Consultation with key stakeholders and the wider community on the Project will continue throughout Stage 2A and subsequent construction phases. These measures will ensure the stakeholders, including the wider community, remain informed of the project's progress.

Key methods of engagement are provided in the Stage 2A EMS.

9.3 Complaints management

All complaints where a third party has identified a construction activity as being unsatisfactory or unacceptable will be dealt with promptly and efficiently in accordance with the complaint and dispute response outlined in the Project's Stage 2A EMS.

AIE will operate a free 24-hour Community Information Line (1800 789 177) where members of the community can leave details about an inquiry, they may have regarding construction activities related to spills. This message will be passed on to site personnel and/or the Stakeholder Engagement Team, as appropriate.

Initial responses to complaints will be provided within 24 hours of the complaint being received. As part of the response, a review of the activity will be undertaken. If required and possible, immediate changes will be made to reduce any impact on the community. In some cases, the issues cannot be resolved immediately, and ongoing actions might be required to resolve the issue.

All complaints related to spills will be recorded in a Complaints and Disputes Register. The following information will be recorded for each complaint:

- 1. The date and time of the complaint.
- 2. The method by which the complaint was made.
- 3. Any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect.
- 4. The nature of the complaint.
- 5. The action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant.
- 6. If no action was taken by the licensee, the reasons why no action was taken.

The Complaints and Disputes Register will be maintained by the Project's HSE Manager or delegate, and will detail what the issue was, initial response provided, how and when the issue was resolved, and by whom.

Where resolving a complaint with a third party is protracted or develops into a dispute, the AIE HSE Manager shall escalate proactively to Senior Project Leadership (e.g., AIE Project Manager and/or Project Director) to assist with resolution. AIE will work proactively with the complainant to resolve the dispute including having face to face meetings, site familiarisation sessions and agreeing on actions to resolve the dispute. All communications and agreed actions shall be documented.

For the management and reporting of corrective actions (which may be required in response to a complaint), refer to the Project's Stage 2A EMS.

10. Inspections, monitoring and audits

Monitoring and auditing will be undertaken to determine the impact on the environment and identify opportunities for improvement. Monitoring to be implemented for specific actions or environmental issues (e.g., water quality monitoring, air quality monitoring) will be detailed in their relevant sub-plan and will specifically address the monitoring requirements for those issues.

10.1 Environmental inspections

10.1.1 AIE and Principal Contractor joint environmental weekly inspection

As a minimum, the AIE HSE Manager (or nominated delegate) will undertake weekly inspection of the work sites with the relevant Principal Contractor's environmental personnel (Environmental Representative or similar) to evaluate the effectiveness of environmental controls (inclusive of erosion and sediment control measures) and general compliance with the implementation of the Emergency Spill Plan for site-based activities.

If any maintenance and/or deficiencies in environmental controls or in the standard of environmental performance are observed, they will be recorded on the checklist form. Records will also include details of any maintenance required, the nature of the deficiency, any actions required and an implementation priority.

Actions raised during inspections will be documented on the *Weekly Environmental Site Checklist* and will be issued formally through the Project's document management system to the relevant Contractor for action. If they represent an actual or potential significant environmental risk, these issues shall be reviewed at the Project Planning meetings and will have non-conformances raised if not closed out in the nominated timeframe (Nonconformance Report).

10.1.2 Contractor environmental inspections

In addition to the joint weekly environmental site inspection with AIE, the Principal Contractor will be required to undertake daily site environmental inspections, targeting key environmental risks commensurate with the activity being undertaken. The daily environmental site inspection will be documented on a checklist, or similar, to be prepared and completed by the Principal Contractor.

Copies of the daily environmental site inspection records are to be provide to AIE on request.

The HSE Manager is responsible for the initial reporting of significant non-compliances with the Emergency Spill Plan or relevant legislation to the AIE Project Director and government authorities (refer to Section 11).

10.2 Monitoring

Monitoring will not be required with respect to this Emergency Spill Plan.

10.3 Auditing

AIE will conduct internal audits at frequencies as determined in the risk-based auditing schedule. The purpose of auditing is to verify compliance with:

- The EMS and this Emergency Spill Plan.
- Compliance with the requirements of relevant components outlined within the EMS and Emergency Spill Plan, including but not limited to, site inspection compliance, document control / management, non-compliance, and incident management etc.
- Monitoring and reporting requirements as set out under EPL No. 21529.

Additional details regarding the auditing process are detailed in the Project's Stage 2A EMS.

10.4 Environmental reporting

10.4.1 DPIE reporting

Regular reports on compliance and other matters will be provided during the construction phase of the Project. This will include reporting to the Department of Planning, Industry and Environment (DPIE) in accordance with Schedule 4, Conditions 7 and 8 of the Infrastructure Approval (SSI 9471), with specific reference to the *Compliance Reporting Post Approval Requirements* (2020).

In addition, DPIE will be notified in writing of the date of commencement of each of the relevant phases of the Project in accordance with Schedule 2, Condition 8 of the Infrastructure Approval (SSI 9471).

Reporting applicable to this Emergency Spill Plan will consist of Environmental Incident Report(s), as required.

10.4.2 Other reporting requirements

A monthly environmental monitoring report will be developed for each calendar month which will include details of the monitoring results and frequencies and inclusion of any exceedance of EPL No. 21529 monitoring limits / criteria. A copy of the monthly environmental monitoring report will be made available on the AIE Project website.

Further reporting requirements are provided in Section 10.6 and Section 11.

10.5 Compliance tracking register

A Compliance Tracking Register has been developed as a monitoring tool to assist with the compliance reporting requirement as set out under Condition 7, Schedule 4 of the Infrastructure Approval (SSI 9471) as follows:

Compliance Reporting

The proponent must provide regular compliance reports to the Department on the development in accordance with the relevant requirements of the Department's guideline Compliance Reporting Post Approval Requirements (2020), or its most recent edition.

The compliance tracking register includes a breakdown of the requirements from the following key approval and project documents:

- Infrastructure Approval (SSI 9471).
- EPL No. 21529.
- Requirements of this Emergency Spill Plan.

The Compliance Tracking Register includes tabulation of reference conditions, the requirements, responsibility, status (i.e., ongoing, close-out, not triggered, etc.) and supporting evidence where required.

A routine review of the Compliance Tracking Register is undertaken by the AIE HSE Manager (or delegate) with input sought from the relevant contractors as required. The Compliance Tracking is a live document which is kept up to date for each stage of the construction works.

10.6 Non-conformance, corrective, and preventative actions

Non-conformances or potential non-conformances are situations or events that do not comply with the safeguards and procedures stipulated in the EMS or this Emergency Spill Plan.

- As part of site inspections, supervision or monitoring of construction activities.
- During internal audits.
- Following justified / supported verbal or written third party complaints.

All non-conformances related to spills will be managed and reported using the non-conformance function of the Project's document management system. Each non-conformance event and follow-up action will be documented and traceable, including identification of key dates and responsible personnel. Additional details regarding corrective and preventative actions are outlined in the Project's Stage 2A EMS.

The Department must be notified in writing to <u>compliance@planning.nsw.gov.au</u> within 7 days after the identification of any non-compliance issue. The notification must identify the development, including the application number, set out the condition of approval that the development is non-compliant with, the way in which it does not comply, the reasons for the non-compliance (if known) and what actions have been taken, or will be taken, to address the non -compliance.

11. Incident management and emergency response

11.1 Incident management

11.1.1 Overview

Incidents are defined as an occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance. The consequences of such incidents may result in material environmental harm, damage, or asset loss. 'Near misses' are extraordinary events that could have reasonably resulted in an incident.

All incidents related to spills, including those of the Principal Contractor, its subcontractors, and visitors that occur during the undertaking of the construction works for the Project will be managed to satisfy the requirements of AIE's Incident Reporting and Investigation System Requirements. Whilst it is noted that key Contractors will be implementing their own environmental management system procedures and processes, AIE will be responsible for ensuring that these systems and processes satisfy the requirements of the AIE EMS, including the incident management components. The Contractor will be responsible for providing all necessary documentation with regards to the incident investigation and close-out actions where required. The timing of the provision of this documentation is to align with the AIE requirements.

The AIE HSE Manager must be notified immediately of any environmental incident or near miss. These may include, but are not limited to the following:

- Exceedance of monitoring criteria as required under the Project EPL (EPL No. 21529).
- Spill of any dangerous goods or hazardous substance to ground or water.
- Substantiated complaints received from members of the community or regulatory authorities.
- Regulatory breaches such as fines, prosecutions, improvement notices, breaches of licence conditions.
- All incidents of third-party property damage or loss.
- Incidents involving impact or potential damage to items or places of cultural heritage significance.
- Land-based off-site sediment loss to the environment, including sediment tracking onto the roadway.

The AIE HSE Manager will be responsible for regulatory notification of all notifiable environmental incidents (refer to Section 11.1.2 for notifiable incidents). All environmental incidents will be reported immediately to DPIE in writing via the Planning Portal after AIE becomes aware of the incident, as per Schedule 4 Condition 5 of the Infrastructure Approval (SSI 9471). The notification must identify the development, including the application number, and set out the location and nature of the incident.

In the event of a notifiable non-compliance incident arising, the Principal Contractor will notify the AIE HSE Manager immediately to allow the AIE HSE Manager to notify DPIE in writing (via the Planning Portal) within 7 days of AIE becoming aware of the non-compliance, as per Schedule 4 Condition 6 of the Infrastructure Approval (SSI 9471). The notification must identify the development, including the application number, set out the condition of approval that the development is non-compliant with, the way in which it does not comply, the reasons for the non- compliance (if known) and what actions have been taken, or will be taken, to address the non- compliance.

11.1.2 Notifiable incident under the POEO Act

In the event of a Notifiable Incident as defined under the POEO Act, AIE is responsible for immediately notifying the EPA, and any other relevant authority, of pollution incidents on or around the site via the EPA Environment Line (telephone 131 555) in accordance with Part 5.7 of the POEO Act. The circumstances where this will take place include:

– If the actual or potential harm to the health or safety of human beings or ecosystems is not trivial.

 If actual or potential loss or property damage (including clean-up costs) associated with an environmental incident exceeds \$10,000.

Follow-up written notification to the EPA and any other relevant authorities will be required in accordance with the POEO Act and requirements of the EPA. This includes the provision of written details of the notification to the EPA within 7 days of the date on which the incident occurred.

All notifiable incidents will also be managed, documented, and reported in accordance with the AIE *Incident Reporting and Investigation System Requirement*.

In addition, an authorised officer of the EPA has the right to request a written report (in accordance with Condition R3 of the EPL No. 21529) if they suspect on reasonable grounds that an event has occurred at the licensed premises which has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies). The written report is to address all the requirements under Condition R3 of the EPL.

11.1.3 Notifiable incident under the Infrastructure Approval (SSI-9471)

In accordance with Condition 5 of Schedule 4, DPIE must be notified in writing to <u>compliance@planning.nsw.gov.au</u> immediately after AIE becomes aware of an incident on site.

Additional details regarding notifiable incidents and procedures are outlined in the Project's Stage 2A EMS.

11.2 Emergency response

Actual or potential emergency situations will vary in type and severity. The required level of response and notification will be at the discretion of the AIE Construction Manager in consultation with the AIE HSE Manager.

Any emergency situation may require only isolated containment and control or may require the complete evacuation of the site and notification of relevant emergency services. Consideration should be made of the response requirements for different situations. If at any time there is uncertainty on how to proceed, response should be for the worst possible scenario. Ultimately, the AIE Construction Manager or representative has authority and responsibility to instigate an evacuation if he/she feels it is warranted.

In the event of an emergency, the following plans shall be consulted and implemented as relevant:

- The Principal Contractor's site-specific Emergency Response Plan.
- This Emergency Spill Plan.
- Pollution Incident Response Management Plan (PIRMP).
- AIE Emergency Management Procedures.

12. Document management and review

12.1 Record management

Records and registers specified for Stage 2A shall be maintained. Records to be kept may include but will not be limited to the following:

- Environmental Inspection Checklist.
- Environment Reporting.
- Environmental Monitoring Reports / Records.
- Fauna and Weed Register.
- Internal Audit Reports.
- Incident Reports and Register.
- Toolbox Talk Records.
- Induction Presentation and Register.
- Environmental Activities Safe Work Method Statement (SWMS).
- Corrective Actions Register.
- Waste and Resource Register.
- Material Tracking Register.
- Training Register / Matrix.
- Complaints Register.

12.2 Review and revision of Emergency Spill Plan

This Emergency Spill Plan will be reviewed and updated, as required under Condition 3 of Schedule 4 of Infrastructure Approval (SSI 9471) to ensure the objectives of the applicable approval conditions contained within are being met throughout Stage 2A.

In addition, as required under Condition 4 of Schedule 4 of Infrastructure Approval (SSI 9471), the Emergency Spill Plan must be reviewed, and if necessary, revised within 3 months (unless otherwise agreed with DPIE) for any of the following:

- Following the submission of an incident report as per Condition 5, Schedule 4 of Infrastructure Approval (SSI 9471) (refer to Section 11).
- Following approval of any modification to the conditions of approval outlined in Infrastructure Approval (SSI 9471).
- At the direction of the Planning Secretary as per Condition 4, Schedule 2 4 of Infrastructure Approval (SSI 9471).

12.3 Access to information

AIE will make the following information publicly available on the PKGT website, as per Schedule 4, Condition 12 of the Infrastructure Approval (SSI 9471) and the requirements as set-out under the Project EPL (No. 21529):

- The PKGT EIS.
- Current statutory approvals for the Project.
- Approved strategies, plans or programs required under the conditions of Infrastructure Approval (SSI 9471).
- A comprehensive summary of the monitoring results of the development, reported in accordance with the specification of any conditions, or any approved plans and programs relating to Infrastructure Approval (SSI 9471).
- A summary of complaints (updated monthly).

- Any independent environmental audit, and responses to the recommendations in any audit.
- The approved premises map (EPL No. 21259, Condition A2.4).
- PIRMP (EPL No. 21529, Condition E2).
- Any other matter required by the Planning Secretary.

This information will be kept up to date by AIE when required.

References

Environmental Protection Licence No. 21529, dated 5 October 2021. GHD 2018, Port Kembla Gas Terminal Environmental Impact Statement. Infrastructure Approval SSI 9471, dated 24th April 2019.



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