



GLNG – Curtis Island

**BIOSECURITY MANAGEMENT PLAN**

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5	1 Feb 13	DSEWPAC Comments added and changes made	LM <i>For.</i>	PH	JM <i>For</i>	BJF	BT <i>[Signature]</i>
4	20 Dec12	DSEWPAC Comments added and changes made	LM	PH	JM	BJF	BT
3	6 Nov 12	SEWPac changes added	LM	PH	JM	BJF	BT
2	15/Oct/12	Issue for use	LM	PH	JM	BJF	BT
1	15 Aug 12	DAFF Comments added	LM	PH	JM	BJF	BT
0	29/May/12	Issue for Review	LM	PH	JM		BT/AP
<b>REV</b>	<b>DATE</b>	<b>REASON FOR REVISION</b>	<b>BY</b>	<b>CK'D</b>	<b>CK'D</b>	<b>SM</b>	<b>PM</b>
<b>BECHTEL OG&amp;C INC.</b>			<b>JOB NO. 25576</b>				
	<b>BIOSECURITY MANAGEMENT PLAN</b>		<b>DOCUMENT NO.</b>				<b>REVISION</b>
			25576-100-G01-GAZ-00001				5
			GLNG Doc No. 3310-BTH-3-3.3-0086				

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## Document Management

### Document revision history

Revision No.	Date	Change By	Amendment	Project Signoff	DAFF Review
Rev 0	29/05/2012	L Makin / P Hay	DAFF Biosecurity format issued for review		DAFF received 12/06/2012
	18/06/2012	GA DAFF	Comments for consideration		18/6/2012
	21/06/2012	L Makin / P Hay	DAFF comments		21/6/2012
	6/07/2012	GA DAFF	Comments for consideration		6/07/2012
Rev 1	15/8/2012	L Makin / P Hay	DAFF Commented Added		
Rev 2	02/10/2012	L Makin / P Hay	Issue for Use		
Rev 3	06/11/2012	L Makin / P Hay	SEWPaC changes added		
Rev 4	20/12/2012	L Makin / P Hay	DSEWPaC comments added and changes made		
Rev 5	01/02/2013	L Makin / P Hay	DSEWPaC comments added and changes made		

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## 1 PROJECT OVERVIEW

The Proponent for the GLNG Plant Project consists of a joint venture between four companies being, Santos, PETRONAS, Total and KOGAS. Bechtel Australia Pty Ltd is the Principal Contractor for this GLNG Plant Project with marine operations located on the Curtis Island Project site and a number of mainland facilities mostly established on Gladstone Ports Corporation land on the Gladstone Harbour. The Project commenced with the Construction phase in March of 2011 and will continue through to the Start up phase scheduled for completion in the fourth quarter of 2015.

The GLNG Project will be constructed on Curtis Island in the Gladstone Harbour that is located in the State of Queensland. The site lies on the south-western corner of Curtis Island. The project site has shipping access via Gladstone Harbour. The bulk of equipment and resources for the project would be shipped from International Port locations from outside of the east Australian seaboard transported via recognised shipping routes directly to the Materials Offloading Facility (MOF) at the Curtis Island jobsite. It is therefore necessary to have a biosecurity area for receiving shipments at the site. All the vessels entering the Australian waters will need to undergo biosecurity inspection for introduced pests and foreign flora and fauna which may have a long or short term impact on the local habitat and environment.

This Biosecurity Management Plan covers the period from construction to the start-up of the LNG facility on Curtis Island. The project's commitment regarding introduction of exotic species and plant pathogens is:

To prevent the introduction and spread of weeds, exotic fauna, and plant pathogens entering the Project site, and

To minimise the risk of spreading weeds, exotic fauna, and plant pathogens to other undisturbed areas, and

To remove and dispose of any weeds, exotic fauna, and pathogens, to the extent reasonable if encountered within the site boundaries.

## 2 PURPOSE

Protecting Australia's biosecurity is a responsibility shared by government, industry and the community. Industry implemented Biosecurity Management Plan (BMP) can assist in maintaining Australia's pest and disease free biosecurity status and significantly reduce contamination that leads to schedule slippage and increased project costs. As such industry is encouraged to develop and apply processes and protocols to manage biosecurity risks, both off and on-shore and throughout the entire supply chain.

Bechtel's commitment to complying with Australia's biosecurity legislation is as follows:

Bechtel has previously made a commitment and will continue with this commitment made to work closely with DAFF in maintaining the approved Biosecurity Management Plan and continue to achieve biosecurity legislative compliance. Bechtel will ensure that all QA personnel are properly trained and accredited to carry out their role with managing biosecurity. Bechtel will be introducing inspection and monitoring programs with all data recorded and auditable as requested. Bechtel will provide all subcontractors and

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personnel with a clear understanding of the legislative requirements of operating and maintaining a secure Biosecurity Quarantine Area.

The purpose of this plan is to prevent the introduction and spread of foreign flora or fauna on Curtis Island and the Gladstone area via material or cargo. This plan outlines the requirements that need to be fulfilled as per Department of Agriculture Fisheries & Forestry (DAFF) these rules address import conditions and quarantine of shipments entering Australia. This plan satisfies the requirement for a “Biosecurity Management Plan” for the direct arrival of international imports to the MOF, as per condition 30 of the Project’s approval under the Environment Protection and Biodiversity Conservation Act 1999 (Cth) [EPBC No 2008/4057].

The following four statutory requirements principally provide guidelines to prevent the introduction of marine pests and foreign flora and fauna into Australia. Any legislative changes made to the following Legislation during the life of this document will apply once the legislation is enacted.

- *Quarantine Act 1908*
- *Quarantine Proclamation 1998*
- *Quarantine Regulations 2000*
- AQIS Ballast Water Management Requirements (March 2008)

## 2.1 Other Guidance

Refer to the Project’s Construction Environmental Management Plan (Bechtel ref. 25576-100-G01-GHX-00017; GLNG 3310-BTH-3-3.3-6817) for additional information, in particular the following sub-plans:

- Attachment H, Environmental Monitoring Plan
- Attachment J, Environmental Training outline
- Attachment R, Waste Management Plan
- Attachment S, Weed & Plant Pathogen Management Plan

## 3 SCOPE

The scope of this BMP involves the proponent complying with Australia’s biosecurity requirements by developing and implementing processes and procedures to mitigate biosecurity risks throughout its entire supply chain (refer DAFF Guide to Industry document). This BMP applies to the importation of new goods and equipment, including accommodation modules and large complex equipment into Australia.

The module fabrication yard is located in Batangas, Philippines; from there the modules will be delivered directly to the Curtis Island MOF. The designated landing port is Curtis Island, GLNG Plant Project Site. A large number of modularized, oversized and/or overweight project cargos on full or part charter vessels will

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be delivered by sea directly from a number of different international origins to the facility's MOF. The Quarantine Area (QA) is located approximately 300m from the MOF which will be the port of entry for goods coming from outside of Australia. The module laydown area is located within the QA. The different types of cargo varies to include tanks, structural steel, generators, compressors and other major components as part of constructing an LNG facility. The activities at the MOF will involve unloading of imported construction materials. The transportation of the construction materials from international ports will be by the means of tug assisted barges and general cargo vessels

Ocean vessel regulations requires all ships entering Australian waters from overseas locations to obtain a quarantine ship clearance from DAFF before discharging any cargo. All vessels entering or leaving Australian waters must also comply with DAFF ballast water management requirements for international shipping and the International Convention for the Prevention of Pollution from Ships (MARPOL).

#### 4 MANAGEMENT/RESPONSIBILITIES

Bechtel understands that this BMP has defined relevant activities that must be implemented and maintained, the effectiveness of this will be achieved by appointing key project personnel to manage these responsibilities:

- The Transport and Logistics Coordinator (quarantine) will ensure the BMP remains current and has been correctly applied to all parties throughout the entire supply chain.
- The Transport and Logistics Coordinator (quarantine) will ensure a rollout of any biosecurity related awareness material is made available to Project personnel through different means such as, induction training, toolbox and prestart meetings and the provision of biosecurity related posters and informative materials.
- The Transport and Logistics Coordinator (quarantine) will develop and implement a communications plan and defined procedures for the recording and the reporting of all biosecurity related issues.
- The Transport and Logistics Coordinator (quarantine) will continue to liaise with DAFF (through Major Industry Projects and Regional DAFF offices) and the Department of Sustainability, Environment, Water, Population and Communities during the life of the BMP.

Bechtel currently has 3 QA accredited persons as recognised by DAFF which will increase up to 7 persons within 12 months of the approval and operations of the BMP/QA. Once the QA is operational, all persons handling the goods subject to biosecurity at the QA facility will be supervised by an accredited person. A procedure/program will be implemented to include toolbox talks, prestart meetings and induction training to ensure all persons working within the QA is aware of possible biosecurity risks and supplemented by biosecurity posters/notifications which will be placed throughout the QA.

The onsite accredited persons will immediately contact the local Gladstone DAFF office to report any possible biosecurity risk which may have been encountered. Both the Biosecurity Management Plan (BMP) and the Quarantine Area Operations Manual (QAOM) are evergreen documents and are subject to updates to accommodate changes. Prior to any changes to the BMP or QAOM, DAFF Biosecurity and the

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Department of Sustainability, Environment, Water Population and Communities (DSEWPaC) will be notified for review and approval.

The following guidelines for DAFF Biosecurity notifications is:

- Notification provided to DAFF 15 days prior to any alterations to operating arrangements
- Notification provided to DAFF within 15 days of changes in management arrangements.
- If a change to the BMP or QAOM is required, accredited persons will incorporate the changes and submit the document to DAFF and DSEWPaC for review and approval.
- Once approved, the revision is issued to Document Control for official issuance and recording in Bechtel's document repository.

## 5 DEFINITIONS

This BMP uses the following acronyms and definitions throughout:

- AQIS – Australian Quarantine and Inspection Service (now referred to under DAFF)
- BMP – Biosecurity Management Plan
- DAFF – Department of Agriculture, Fisheries and Forestry
- DSEWPaC - Department of Sustainability, Environment, Water, Population and Communities
- MOF – Materials Offloading Facility
- QA – Quarantine Area
- QAOM – Quarantine Area Operations Manual
- LNG – Liquefied Natural Gas

## 6 REFERENCE DOCUMENTS

### 6.1 Attachments

GLNG Project MOF (Marine Offloading Facility) and QA (Quarantine Area) Layouts (**See attachment 6.1**)

## 7 CARGO TYPES/CONSTRUCTION

Types of cargo vary to include pre-assembled modules, tanks, structural steel, generators, compressors and other major components as part of constructing a LNG facility. Bechtel will develop biosecurity plans and put measures in place at the overseas manufacturing facilities to ensure that there is no added biosecurity

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risks such as water pooling or manufactured equipment being stored under or adjacent to vegetation that cross contaminate cargo prior to shipment. Bechtel will oversee the implementation of Biosecurity Management Plans and all necessary procedures to ensure biosecurity controls are recognised at these overseas facilities.

### 7.1 Potential sources of exotic species

The major potential source for introduction of exotic species will be through imported building materials and construction equipment brought to the island from the mainland or from overseas. A construction yard for assembling large modules for the LNG facility will be located in Batangas, Philippines and will ship the modules directly to Curtis Island via barge. Also, additional shipments of material and equipment from various parts of the world may be shipped directly to Curtis Island. LNG tanker ships will enter Australian waters from overseas and will be loaded with LNG from the facility at the end of construction during the start-up and commissioning phase of the project.

Certain shipments from overseas may arrive at other Australian ports, such as Brisbane. These shipments will pass through existing biosecurity management facilities there.

In rare instances road vehicles or site personnel may also inadvertently carry exotic materials. Other sources include packing materials that are contaminated with live insects, soil, faecal material, prohibited or restricted seeds, other extraneous plant material and animal matter. Note, rice straw, straw, hay, chaff and rice hulls are prohibited packing materials which will not be used by the project.

### 7.2 Existing weeds and exotic fauna

Biological surveys conducted for the project's Environmental Impact Statement identified several weed and exotic fauna species that occupy the LNG facility site.

### 7.3 Weeds

The following weeds occur at the LNG facility site on Curtis Island:

Species	Common Name	Declared Status <sup>1</sup>
<i>Cryptostegia grandiflora</i>	Rubber vine	Class 2
<i>Lantana camara</i>	Lantana	Class 3
<i>Lantana montevidensis</i>	Creeping lantana	Class 3
<i>Opuntia stricta var stricta</i>	Prickly pear	Class 2
<i>Sporobolus spp pyramidalis, natalensis, jaquemontii,</i>	Giant Rats Tail Grass	Class 2

<sup>1</sup> Declared under the Queensland Land Protection (Pest and Stock Route Management) Act 2002



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<i>fortilis and africanus.</i>		
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#### 7.4 Known Exotic Fauna

The following exotic feral wildlife species occur at the LNG facility site on Curtis Island:

- Horse (*Equus ferus caballus*)
- Cow (*Bos primigenius*)
- Pig (*Sus Scrofa*)
- Ferrel cat (*Felis Catus*)
- Dogs or dingos (*Caris familiaris*)
- Red fox
- Cane toad (*Bufo marinus*)

#### 7.5 Red Fire Ant Plan

Red imported fire ants (*Solenopsis invicta*) are not known to occur on Curtis Island. Biosecurity Queensland Control Centre (BQCC) is the Queensland government agency tasked with finding, treating and containing red imported fire ants. The Project shall control red imported fire ants by:

- Not importing soil to the job site from fire ant infested areas.
- Monitoring the site for fire ant mounds per advice from BQCC.
- Treating any fire ant mounds with chemicals per advice from BQCC.
- Contacting BQCC (telephone 13 25 23) in event of sighting fire ants or questions regarding fire ant management.

#### 7.6 ENVIRONMENTAL PERFORMANCE INDICATORS

The following Performance Indicators shall be followed:

1. Prevent the spread of existing introduced flora and fauna species within Curtis Island and between the island and the mainland.
2. No new populations of existing introduced flora and fauna species to become established on the island.
3. Existing boundaries of weed species populations do not spread.
4. Control and eradicate all introduced flora and fauna species encountered on the LNG facility site.
5. The use of approved chemicals for all pest and weed control will be benchmarked against DAFF Biosecurity requirements, performance measures and the appropriate regulatory Standards.

#### **Please Note**

Biosecurity risks will be reduced due to the strict regulations as per section 7 of the purchase order documentation which is provided to each supplier/packer and also the selected off shore inspections by DAFF accredited persons.

## 8 SITE/PREMISES DETAILS

### 8.1 Site plan

For jobsite MOF and QA layouts / details please refer to the attachments referenced in Section 6 of this Biosecurity Management Plan.

As discussed in Section 3 of this Biosecurity Management Plan, the GLNG Plant Project will utilize a module fabrication yard. These pre-assembled modules will be delivered by barges and/or vessels directly to the Curtis Island MOF. More details on the module fabrication yard can be found at this website: <http://www.agp.ph/index.html>

### 8.2 BMP Curtis Island

This BMP has been prepared to cover only the operations taking place on Curtis Island GLNG Project Site

### 8.3 Site management and inspection regimes

**General** - The following site management and inspection regimes apply:

1. All Quarantine requirements as identified in the *Quarantine Act 1908, Quarantine Proclamation 1998 and the Quarantine Regulations 2000* will be included in contracts with all subcontractors and suppliers providing materials and transport services to Curtis Island, including Module loading and offloading.
2. Quarterly inspections of the site shall be conducted by the environmental manager to assess any presence of weeds or exotic wildlife. These inspections will take place quarterly as mentioned or as required due to any sightings or reporting.
3. All sightings of introduced flora and fauna will be reported to the environmental manager and recorded in the Weed Register.
4. Prior to ground-disturbing activities conduct a pre-clearance survey for weed species.
5. A map will be maintained that identifies the location of weed species on the island and within the project area, which includes the date, approximate number and type of each weed species at each identified location.
6. A Weed Register will be maintained by the environmental manager and will include information on the distribution, abundance, relevant biology and effective controls methods of weed species.
7. No flora or fauna will be brought onto or off the island, without authorization by the environmental manager (note, sick/injured wildlife may have to be removed from the island).
8. Disturbance to natural vegetation and disturbance to soil will be minimized to limit invasion by introduced species.
9. No unauthorized off-track driving.
10. Top soil from known contaminated areas will be stored and monitored and any germinating weeds destroyed.

11. Implementation of specific weed control and eradication procedures for targeted weed species, which incorporate the use of an appropriate herbicide and application program.
12. All foodstuffs, general waste and regulated waste will be stored in sealed containers and transported by an accredited and licensed provider to a licensed disposal facility.
13. Prior to the operation of the QA all approved staff will receive appropriate training on the identification, location and reporting of weed species and introduced fauna. This information will also be included in the environmental induction and environmental awareness sessions (toolbox training presentations). All training provided to staff will be delivered by a competent licensed / accredited person.
14. All staff approved to work in the QA will receive training on quarantine management procedures and this will also be included in the environmental induction and environmental awareness sessions (toolbox training presentations).
15. Specialist training will be provided by competent licensed / accredited trainers to personnel in the procurement, transport and logistics supply chain in quarantine procedures.
16. Specialist training will be provided by competent licensed / accredited trainers to personnel conducting quarantine inspections of cargo prior to off-loading onto the island in the Biosecurity Inspection Procedure developed in consultation with DAFF.
17. A weed and introduced fauna identification guide will be made available to personnel.
18. All training conducted by licensed / accredited trainers will be recorded with all records kept for audit purposes.
19. Access to Curtis Island Environmental Management Precinct is prohibited without specific approval from the Site Manager on Advice from the Environmental Manager. Approvals may only be granted where there is a specific requirement consistent with the purpose of the Precinct, such as relocation of wildlife (including placement and monitoring of nest boxes) under the GLNG Species Management Plan
20. No private motor vehicles or water craft will be brought on to the LNG site.  
No animals (including domestic cats and dogs) and plants will be brought on the LNG site unless they are required for landscaping or rehabilitation purposes.
21. Areas forming part of the biosecurity area and areas identified as being part of the Quarantine Area (QA) will have forms of permanent and temporary fencing installed to ensure security controls for these areas can be maintained.
22. A program for implementing and managing housekeeping requirements for all areas covered by the BMP will be in place prior to any operational use of the facility.

## 9 OPERATIONAL PROCEDURES

A number of measures shall be employed to control existing declared weeds and the introduction of new exotic pests and weeds to Curtis Island and areas around the facility site:

- Workforce induction – workers shall be advised of the nuisance and adverse impacts associated with introduced pests, noxious weeds and plant pathogens to Curtis Island.

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- A fence that will exclude most large mammals will be erected on the inland boundary of the site prior to facility operation.
- Washdown of all plant and equipment - Machinery and materials shall be washed down off-site at subcontractor premises before bringing to the site to prevent the introduction of weeds and plant pathogens. Machinery and materials arriving without clearance shall either be turned away or biosecured pending wash-down.
- A designated on-site biosecurity and washdown/fumigation area shall be provided. Treatment shall include hosing down of earthmoving equipment and vehicles and the use of steam pressure spray for earthmoving equipment that retains soils or mud which is difficult to remove. Runoff from washdown shall be captured and treated to remove/kill pests prior to discharge.
- Equipment manufacturers shall be informed of biosecurity requirements of DAFF. If the packing materials are found to be contaminated at the site of unpacking then they shall be reported to DAFF and removed and taken off-site to a licensed facility for disposal under DAFF direction/supervision.
- Earth-moving equipment leaving site shall be thoroughly cleaned to remove any excess build-up of soil that may carry plant pathogens.
- During the site clearing operation noxious weeds, timber, and other vegetation matter shall be destroyed by felling and/or chipping. Chips or timbers that are removed from the island shall be disposed of as per DAFF guidelines.
- Earth-moving equipment from domestic Australian sources shall arrive with a weed/seed certificate before being allowed on-site.
- All plant and equipment from international (non-Australian) sources shall arrive at the Curtis Island MOF and be placed in the designated biosecurity area until cleared by DAFF.
- Excess cut material (if any) shall be inspected for weeds before taking for off-site disposal.
- Cleared areas that for the duration of the project are no longer required for construction or laydown activities shall be seeded with non-weed species.
- If noxious weeds are found in work areas they shall be removed or treated, and disposed of on the island.
- If a declared weed that has not previously been on the property or a major weed infestation is noticed inside or adjacent to project property, Bechtel's environmental manager shall inform GLNG's representative. Any declared weeds found on the island shall be treated as per the local and state requirements.

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- The services of a licensed pest and weed control company will be used by Bechtel for identification, control and eradication of any detected non-indigenous terrestrial species (pests and weeds) on the project site.
- Control measures to mitigate the potential impacts upon indigenous species include;
  - Exclusion – A vegetation free buffer will be maintained around the Quarantine Area (which is within the existing Project footprint)
  - Inspection - before treatment the area will be inspected and if any indigenous species (snakes etc) are identified they will be removed by a qualified person before treatment will begin,
  - Trapping – a trapping program focused on rodents will be in place and any indigenous species that are trapped will be handled in accordance with the Qld Nature Conservation Act as per the trapping/pest control procedures. These works will be carried out by a pest contractor who has suitably qualified staff.
- Quarterly inspections shall be conducted and inspectors shall be trained to identify major exotic pests, (invertebrates, vertebrates and weeds) and declared weeds and fire ants.
- Fire ants or other insect pests may be treated chemically based on consultation with GLNG and DEEDI.

### 9.1 Imported cargo pathway

- DAFF compliance flow downs in all project issued purchase orders
- Pre-shipment inspections and surveys
- Shipping instructions for all vendors, suppliers and contractors include reference to the 'DAFF Guide to Industry' web site
- DAFF compliance included in the manufacturing, packing, storage and preservation procedures
- Transport plans inclusive of DAFF compliance procedures
- Loading and vessel cleanliness compliance included in Bechtel booking notes
- Preventing cross contamination (e.g. containerisation, tarping, chemical treatments)

### 9.2 Inspections

All inspections will be conducted so as to comply with legislative requirements and will be carried out by accredited personnel. Inspections will include all records required to be provided, some in the form of checklists, e.g. Vessel and Cargo Inspection Checklists. Bechtel has no jurisdiction to board and inspect any vessel as part of QA management, that jurisdiction remains with DAFF Biosecurity officers and Australian Customs and Border Security. QA personnel can take part in these inspections under the control of DAFF and Customs Officers.

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### 9.3 Cleaning / treatment

Fumigation, vermin control, trapping, baiting when required will be provided by Amalgamated Pest Control. All cleaning of cargo will be conducted by Bechtel persons and will be supervised by DAFF accredited persons using various cleaning methods including

- Hi-pressure water
- Steam cleaning
- Garden hoses
- Rags
- Certain approved chemicals

Reinspections will be booked with DAFF prior to any cargo being released to construction. At no time will any cargo be released from the Biosecurity area until a completed and released order is received from DAFF.

### 9.4 Waste disposal

Waste disposal will be provided by our nominated approved carrier and delivered to GPC for the correct disposal treatment. Waste water from the 'wash pad' will be treated via the Water Treatment Plant. Solid biosecurity risk material will be collected and placed in approved biosecurity bins and disposed of by our nominated approved carrier to GPC for the correct disposal treatment.

Solid biosecurity risk material can include, dirt collected via the wash pad, dunnage timber, bark, contents of vacuum bags etc.

All waste generated through the crib rooms and other personnel facilities must be managed and correctly disposed of to ensure biosecurity is not breached.

## 10 SECURITY

The QA will have temporary security fencing installed to facilitate the management of persons entering the area. Only authorised persons will be permitted to enter the QA whilst biosecurity held cargo is being managed.

Bechtel will provide security personnel to ensure the QA is not compromised.

## 11 TRAINING

Training of newly accredited persons will be performed by the 2 experienced accredited persons on site. The training of persons working under supervision within the QA will be given clear direction from DAFF accredited persons. Appropriate training will be given to all persons approved to work in the QA prior to the first international arrivals and will be ongoing as new cargo arrives which has different biosecurity risks. A

register of attendees having received training will be recorded and will be kept in the 'office' situated within the boundaries of the QA. As new procedures and ways of managing biosecurity arise with the arrival of different cargo, all accredited persons will attend training to address these risks. The Transport and Logistics Coordinator (quarantine) will schedule monthly training / retraining sessions for all QA staff in the form of practical and theory sessions.

All Project personnel will be given information and advice as to what the BMP means to the Project and how they have a role in identifying any biosecurity risk materials, who to report it to and what is required to be done to ensure the risk has been properly managed.

## 12 AUDITING

All aspects of the BMP will be addressed during audits conducted by accredited company or 3rd party auditors through quarterly audits. These audits will also ensure all auditable forms are being completed. If any non-conformities are found they will be rectified and all accredited persons will attend a tool-box training session to make them aware of the non-conformity and associated corrective action. Desk audits of the BMP may also be performed directly by DAFF persons on request to ensure all matters arising from the BMP are being implemented and are in compliance.

The Audit process will include a review of the performance of the BMP and the QAOM to ensure the primary objectives are being met. Additional actions and or studies will be included in the BMP and QAOM as required.

## 13 REPORTING & RECORDS/DOCUMENTATION

Records will be kept stating the following:

- Quarantine Order number
- Cleaning required
- Cleaning completed
- Cleaning completed by whom
- Date of re-inspection
- Date of cargo release to construction
- Incident reports noting response and remedial action when BRM is detected e.g.
  - off-shore detections – contain, treat/clean, maintain record
  - on-shore detections – contain, immediately report to regional DAFF office (phone 1800 020 504), treat/clean (as directed)
- Site cleanliness inspection reports
- Industry Vessel and Cargo Inspection Reports
- Records of disposal of biosecurity waste
- Records of treatments e.g. fumigation treatment certificates.
- Training records
- Audit outcome records

- Processes implemented to mitigate additional and on-going contamination events.

## 14 DAFF - LIMIT OF LIABILITY

- (a) DAFF does not guarantee or represent that by it reviewing the Proponent's Biosecurity Management Plan documentation and associated processes:
  - (i) that any goods and equipment will be permitted entry into Australia; or that
  - (ii) the Proponent or Project associated suppliers/contractors will satisfy any or all of the requirements to import the goods into Australia including, without limitation, the requirements of the *Quarantine Act 1908* (Cth).
- (b) The importer is responsible for ensuring that the goods meet all Australian requirements relating to the goods, including, without limitation, the requirements of the *Quarantine Act 1908* (Cth).
- (c) The Client waives and releases the Department of Agriculture, Fisheries and Forestry (DAFF), its employees, servants, agents and advisers from any claim it may have against any of them (including claims based in negligence) arising from the performance of the services.
- (d) If the goods do not meet Australian requirements, the Client is responsible for, and must meet the costs associated with re-inspection, exporting, treating or destroying the goods.



Attachment 6.1 - GLNG Project MOF (Marine Offloading Facility) and QA (Quarantine Area) Layouts

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