



User Report
Q-LNG01-15-MP-0094

Community Health and Safety Strategy

Gas Fields and Pipeline

Community Health and Safety Strategy

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Acronyms and Abbreviations

AME	Aero Medical Evacuation
CSG	Coal Seam Gas
EIS	Environmental Impact Statement
GEMT	Group Emergency Response Team
GISERA	Gas Industry Social and Economic Research Alliance
HSMP	Health and Safety Management Plan
IVMS	In-Vehicle Monitoring System
KPI	Key Performance Indicator
LNG	Liquefied Natural Gas
LSC	Logistics Safety Code
MAE	Major Accident Event
MAWG	Mutual Aid Working Group
OESR	Office of Economic and Statistical Research
PHA	Process Hazard Analysis
PSSR	Pre Start-Up Safety Review
QMEA	Queensland Minerals and Energy Academy
QPS	Queensland Police Services
RCCC	Regional Community Consultative Committee
SBRWAME	Surat Basin Rural Wing Aero Medical Evacuation
SIA	Social Impact Assessment
SIMP	Social Impact Management Plan

Community Health and Safety Strategy

1. Introduction

1.1. Purpose

This Community Health and Safety Strategy ('the Strategy') has been prepared for the Australia Pacific LNG Project ('the Project'), to address Condition 2 (1C) and Appendix 6 of the Coordinator General's Report on the Environmental Impact Statement (EIS) for the Project.

Particular social issues and concerns that the Strategy responds to include:

- The potential for socially unacceptable behaviour due to population increase and changed demographics
- Increased road traffic, potentially reducing road safety and causing traffic congestion
- Increased demand for medical and health services
- Concern about potential impacts of industry on community health, primarily around air quality and dust emissions

Origin Energy is the operator of the Australia Pacific LNG Project, and therefore maintains overarching accountability for managing the health and safety of workers, contractors and visitors to the Project. As such, this Strategy aligns with Origin Energy's health and safety principles:

"We conduct ourselves and our business with due care and in accordance with relevant laws and regulations. We have an overriding duty to ensure the health and safety of our employees, and to minimise the health, safety and environmental impacts on our customers and the communities in which we operate"

1.2. Scope

The Strategy refers specifically to the gas fields and pipeline components of the Project, and includes all community and workforce health and safety issues. The actions and activities contained in this document extend across the construction phase of the Project, and are intended to address construction-related issues and impacts. The Social Impact Management Plan (SIMP) for the Project, as well as the other plans and processes reference in this document (**Section 1.7**), will be reviewed and updated on an annual basis to reflect changes across the life of the Project, and emerging actions and activities with regard to community health and safety.

To ensure that the Strategy is relevant in addressing cumulative issues and impacts, it has aligned closely with applicable regional studies, strategies and programs, including:

- The Surat Basin Health and Community Services Workforce Initiative (and associated action plan)
- The Surat Basin Future Directions Statement

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- The Maranoa Regional Wellbeing Study
- The Western Downs Health and Wellbeing Strategy

Alignment with these strategies aims to promote local and regional synergies, while avoiding duplication of effort. Coordination on health and safety issues is also achieved through the Regional Community Consultative Committee (RCCC) for the gas fields and pipeline areas.

1.3. Objectives

Origin Energy "*value[s] the wellbeing of our employees, contractors, customers, the communities in which we operate and the environment. We are committed to responsible management practices that minimise any adverse health, safety or environmental impacts, and enhance benefits associated with our activities, products or services*"

The implementation of this Strategy supports the above overarching objective, and also aims to:

1. Continue the development of strong working relationships with emergency service providers
2. Minimise demand on health and emergency services as a result of Project activities
3. Mitigate impacts on road, air and shipping movements as a direct result of transporting personnel, materials and equipment
4. Provide a safe environment for our employees and community members

A detailed framework to achieve these objectives is provided in Section 3.

1.4. Commitments

As outlined in the Social Impact Assessment (SIA) and SIMP for the Project, Australia Pacific LNG is committed to the following with regard to health and safety management:

- Australia Pacific LNG will expand its community safety awareness program in conjunction with industry partners, government and community groups, to develop responses to Project-related community safety issues in the region.
- Australia Pacific LNG will strictly enforce its code of conduct for all staff and contractors, to uphold a high standard of behaviour.
- Australia Pacific LNG will collaborate with government, industry and other providers to mitigate the impact on health services in local communities, including providing the appropriate level of medical facilities for accommodation facilities.

The overarching policy which supports and guides these commitments is the Origin Energy Health, Safety and Environment Policy (ORG-HSE-POL-01). This policy provides a management system which drives continuous improvement, and

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facilitates the provision of safe work places and systems of work, while empowering employees and contractors to address unsafe or hazardous situations.

1.5. Responsibilities

While Australia Pacific LNG has the overarching responsibility for implementing this Strategy, Origin Energy believes that a commitment to safety should be embedded into the corporate culture across the entire Project, and that responsibility should be shared across business units and other stakeholders.

The division of responsibilities includes:

- Origin Energy – Origin Energy (as the operator of the Project) has the overarching responsibility for implementing this Strategy and ensuring that identified programs are implemented and reported on.
- Contractors – Primary contractors will be required to demonstrate compliance with their contractual obligations under Origin Energy's relevant community health and safety systems and directives.
- Partner agencies – Local, state and national government will retain responsibility for delivering health and emergency services to communities. Australia Pacific LNG will provide relevant and up-to-date workforce information to government agencies to optimise the outcomes of health, safety and wellbeing programs.
- Communities and workers – At all times, communities and individuals retain ultimate responsibility for ensuring their own safety and wellbeing. Employees of Australia Pacific LNG and its primary contractors are also responsible for ensuring they comply with the Project's health and safety policies and procedures at all times.

1.6. Key Stakeholder Engagement

Origin Energy recognises the need for a collaborative approach to maintaining and enhancing health and safety for communities and workers. As such, engagement with key local, regional and national stakeholders has been essential to the development of this Strategy, and will be undertaken on an ongoing basis throughout the life of the Project.

In particular, consultation through the following forums will be ongoing:

Table 1 Key Stakeholder Engagement Forums – Health and Safety

Forum	Key Stakeholders
Emergency Response Mutual Aid Working Group (MAWG)	Origin Energy Santos QGC Arrow Energy
Surat Basin Queensland Police Services (QPS) Working Group (Quarterly meetings)	Station Officers in Charge QPS Inspectors

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Queensland Security Working Group	MAWG Representatives Queensland Police Services Attorney General Counter Terrorism Team
Queensland Fire and Rescue Services Western Region working group	Regional Inspectors Assistant Commissioner
Regional Planning Committee for emergency services	Queensland Police Services Queensland Ambulance Services Queensland Fire & Rescue Services
Western Downs regional Council Maranoa Regional Council Banana Shire Council (Quarterly meetings)	Council Representatives
Surat Basin Rotary Wing Aero Medical Evacuation (SBRWAME) Reference Group	Origin Energy Arrow Energy QGC Santos Careflight Queensland Health
SBRWAME Steering Committee	Origin Energy Arrow Energy QGC Santos Careflight
Heavy Haulage Working Group	CSG Industry Project Proponents
Emergency Services Western Area Reference Group	Origin Energy Queensland Police Service Queensland Ambulance Service Queensland Fire & Rescue Services State Emergency Services Western Downs Regional Council

1.7. Supporting Documentation

This Strategy has been informed by, and should be read in conjunction with, the following Australia Pacific LNG documents:

- Social Impact Management Plan (gas fields and pipeline) (Q-LNG01-15-MP-0128)

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- Upstream Group Emergency Management Plan (OEUP-1000-PLN-SAF-004)
- Upstream Project Emergency Management Framework (Q-LNG01-15-MP-0119)
- Condabri Central DA ERP (Q-4500-15-AP-1001)
- APLNG Field Medical Scope of Works (Q-LNG01-15-SW-0152)
- APLNG Health, Safety, Security and Environmental Management Plan (Q-LNG-15-MP-0001)
- Upstream Projects - Construction Health and Safety Management Plan (HSMP) (Q-LNG01-15-MP-0030)
- CSG Logistics Safety Code

2. Key Strategy Focus Areas

The upstream component of the Australia Pacific LNG Project will necessarily result in increased construction and operation activities, as well as the associated population increases and demographic changes. As a result, as the interaction between Project activities and the workforce and community increases, so too does the likelihood of a safety incident occurring. Notwithstanding the potential high human cost, such an incident may also incur a significant corporate and project cost. Acknowledging this, the Project has developed a streamlined Strategy to address three core management components, as depicted in **Figure 1**.

Figure 1 Health and Safety Strategy Components



Table 2 provides a summary of the key initiatives proposed to address health and safety issues, while the sections which follow outline in the detail the programs and procedures that will be implemented to meet the Project's safety and wellbeing objectives.

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Table 2 Community Health and Safety – Key Focus Areas and Initiatives

	Emergency Response Planning	Community Health and Safety	Workforce Health and Safety
Relevant SIMP Objectives	<p>Objective 1 : Continue the development of strong working relationships with emergency service providers</p> <p>Objective 2: Minimise the demand on health and emergency services as a result of Project activities</p>	<p>Objective 1: Continue the development of strong working relationships with emergency service providers</p> <p>Objective 3: To mitigate impacts on road, air and shipping movements as a direct result of transporting personnel, materials and equipment</p>	<p>Objective 4: To provide a safe environment for our employees and community members</p>
Relevant Project Documents	<ul style="list-style-type: none"> Upstream Project Emergency Management Framework Group Emergency Management Plan Field Medical Services – Scope of Work Bushfire Management Strategy 	<ul style="list-style-type: none"> Health, Safety and Environment Policy Traffic Management Plans Complaint Management Policy and Procedure Community Investment Strategy Stakeholder Engagement Strategy 	<ul style="list-style-type: none"> Upstream Construction HSMP Health, Safety and Environment Policy Employee Code of Conduct Health and Fitness for Work Directive 'Health' document (Origin Energy) Drug and Alcohol Policy
Key Initiatives	<ul style="list-style-type: none"> Onsite medical facilities Dedicated medical personnel AME helicopter service Industry Mutual Aid Working Group Monthly vehicle incident reporting 	<ul style="list-style-type: none"> Community safety awareness program 'Working Together' program Complaints resolution procedure Roma airport upgrade CARS program Maranoa parenting van GISERA social and economic research alliance Infrastructure upgrades Road use management plans, and traffic management plans 	<ul style="list-style-type: none"> Employee and contractor inductions Workforce code of conduct Health and fitness directive Drug and alcohol policy Employee Assistance Program APLNG Health Team (wellbeing program) Principal contractor health reference group In-Vehicle Monitoring System (IVMS) for project vehicles Compliance with APPEA light vehicle minimum specifications

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		<ul style="list-style-type: none"> • Traffic notification process • Heavy Haulage Code of Practice for CSG • Gas Fields Logistics Plan 	<ul style="list-style-type: none"> • Monthly vehicle incident reporting • Regional Logistics Plans (Gas Fields and Gladstone)
<p>Key Stakeholders</p>	<ul style="list-style-type: none"> • Queensland Police Service • Queensland Ambulance Service • Queensland Fire & Rescue Service • Queensland Health • Regional Councils • Other project proponents 	<ul style="list-style-type: none"> • Local Councils • Department of Community Safety • Queensland Health • Other project proponents 	<ul style="list-style-type: none"> • Origin employees • Primary contractors • Employee and contractor families

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2.1. Emergency Response Planning

A comprehensive emergency response planning exercise has been undertaken to provide guidance during an emergency, and minimise the impact of a crisis on workers, the community, the environment, and the Project.

In particular, during an emergency, Origin Energy's priorities are to:

- Ensure the safety of all its people, relevant contractors' people and the public associated with, or affected by its operations or activities
- Secure and minimise the effect on the environment through timely and effective management
- Reduce the effect on property and assets
- Contain and manage the effect on reputation and business continuity
- Minimise the disruption to continuing operations and activities

To support these priorities, a number of specific strategies and mechanisms will be implemented across the life of the project as outlined in the tables which follow.

Emergency Management Initiatives	
Purpose: Provide guidance in managing and responding to emergency situations.	
Programs	Description
Group Emergency Management Plan	<p>Provides guidance for the Upstream Group Emergency Management Team (GEMT) with regard to:</p> <ul style="list-style-type: none"> • First response procedures • Emergency activation / escalation • Roles and responsibilities • Telephone and support details • Training available <p>It describes the crisis activation framework, the GEMT mobilisation process and the specific roles and responsibilities for the team.</p>
Mutual Aid Working Group	<p>The MAWG was formed to plan for and mitigate the potential effects of an emergency event to preserve human life, conserve the environment and protect public and private property.</p> <p>The group also provides an engagement forum with industry to discuss opportunities for shared facilities with other proponents. It will meet regularly to discuss emergency response issues that have the potential to affect one or all group members and the general public.</p>
Group Emergency Management Team	<p>An upstream GEMT has been appointed for the Project, and works with the Emergency Control Room (ECR) coordinator to enable rapid mobilisation of the team and its support people.</p>

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Aero Medical Evacuation (AME) Helicopter Services

This is an industry-funded initiative and was launched by Origin Energy, QGC, Santos and Arrow Energy in April 2011. The program is operated by CareFlight Group Queensland and aims to provide immediate first aid and emergency transport, and minimise the impact on local medical services. This program will initially run over three years until 2014 towards the end of construction, after which its continuation will be reviewed.

There is one helicopter based in Roma, and another available in Toowoomba, and a critical care doctor and paramedic are available as part of the service.

On-site Health Service Provision Initiatives

Purpose: Provide appropriate field health services and medical professionals to facilitate the safety of the workforce, contractors and visitors on site.

Programs

Description

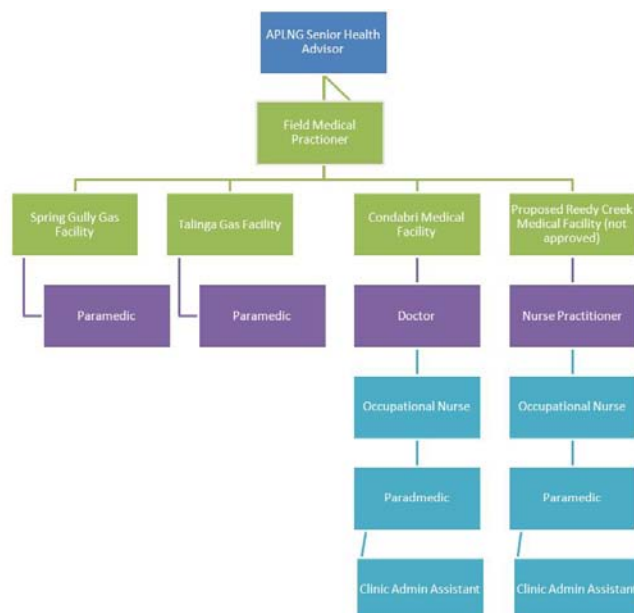
Field Medical Services

A service provider will be appointed to provide:

- Clinical services
- Emergency services
- Short-term critical care
- Medical evacuations
- Pharmaceuticals and consumables
- First aid and trauma kit
- Proactive health care initiatives
(e.g. linking with government initiatives)

Onsite Medical Professionals

The following on-site medical personnel will be appointed to respond to emergencies and other health/safety incidents on site:



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2.2. Community Health and Safety

As previously described, the health and safety of Project-affected communities is a critical component of Origin Energy's values and principles. While Australia Pacific LNG acknowledges that safety is the responsibility of all individuals, it also believes that educating the community increases the awareness, and hence preparedness, of people in avoiding or managing safety incidents. In particular, Origin Energy seeks to build a culture of safety throughout its workforce and affected communities; promoting safety in all aspects of life, not only those directly related to the Project.

Australia Pacific LNG acknowledges that communities' perceptions of safety can change with the introduction of a large number of non-resident workers; and that the behaviour and integration of these workers into the host community is an important element in maintaining feelings of community safety. As such, the Project's 'community health and safety' focus includes a number of core elements, including around workforce behaviour (code of conduct), road and traffic safety, community engagement, and safety awareness. These elements and relevant initiatives are outlined in detail in the tables which follow.

Community Safety Awareness Initiatives	
<p>Purpose: To increase the community's awareness of hazards and risks, and provide the information required for people to respond appropriately to safety incidents.</p>	
Programs	Description
<p>Integrate safety into detailed Project design.</p>	<p>Safety in Design</p> <p>Safety has been embedded into the design by various risk identification and mitigation strategies, considering the impact of Major Accident Events (MAEs) on personnel, environment and community.</p> <p>Major risk identification has been carried out by the use of HAZID, HAZOP, consequence modelling, layout studies, risk assessments and various other safety studies.</p> <p>Loss of containment, MAEs and personnel exposure to risk has been effectively addressed by:</p> <ul style="list-style-type: none"> • Best practice engineering around separation distances • Appropriate location of highly occupied buildings, camps and high traffic areas in relation to processing and hazardous areas • Incorporation of quantitative risk analysis recommendations and human factor engineering <p>The results from embedding these initiatives will produce a world-class design, whose operations are safe, reliable and predictable.</p> <p>Minimal Disturbance Technology</p> <p>The Australia Pacific LNG Project is using the only minimal disturbance hybrid coil tubing drilling rigs in Australia.</p> <p>The Savanna rigs provide faster turnaround of well delivery, safer operation and less land disturbance. The portable and compact rig design means they can virtually go anywhere without building or grading roads, resulting in a disturbance</p>

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	<p>area one tenth of the size from a conventional drilling rig.</p> <p>Savanna rigs use a unique flexible coil for continuous drilling removing the need for physical reconnections of steel pipe used in conventional drilling. The result is that drill time is halved and the land requires minimal reinstatement.</p> <p>The new innovative drilling rigs were chosen after a two year global study by the Project on drilling best practice.</p>
<p>Working Together Program</p>	<p>Origin Energy is leading the 'Working Together Program', which is being designed and developed in partnership with Skills Queensland, the Queensland Farmers Federation and AgForce. The initiative is a training program which focuses on sustainable farming and CSG practices, and enables farmers to gain a formal recognition of their skills. This then enables them to carry out activities supporting gas development on their properties.</p> <p>The program includes significant safety awareness training for participants, and addresses safety on properties that will be affected by gas wells.</p>
<p>Traffic Management</p>	<p>Targeted Road Use Management Plans will be prepared for the Project, one for local authorities, and one for State-controlled roads. A Road Impact Assessment Report will also be undertaken for each affected road authority, the outcomes of which will feed into the relevant management plan.</p> <p>In addition to this, Australia Pacific LNG and its contractors will prepare site-specific traffic management plans and protocols for the benefit of local residents in Project construction areas.</p> <p>These plans aim to minimise any impact the Project's operations have on traffic along major highways, as well as traffic movement on rural roads and through communities and towns in the area.</p> <p>A set of traffic management protocols will be applied prior to, and during, any construction-related vehicle movements on school bus routes or when in close proximity to school buses and schools.</p>
<p>In-Vehicle Monitoring System (IVMS)</p>	<p>Australia Pacific LNG requires all of its vehicles (and the vehicles of its contractors) to be fitted with IVMS devices. The IVMS is capable of identifying the driver and location of the vehicle, while also monitoring aspects such as speed, and issuing audible warnings to drivers to help avoid accidents and incidents.</p>
<p>Regional Logistics Plans</p>	<p>Logistics Plans have been developed for the Gladstone and Gas Fields areas, and provide details around specific health, safety and environment considerations relevant to the operating environment. In particular, the plans specifically deal with the management of waste, traffic, personnel travel, accommodation, water, fuel, telecommunications, and emissions and discharges.</p>
<p>CSG Logistics Safety Code (CSG-LSC)</p>	<p>The CSG Logistics Safety Code (LSC) is an initiative to support safe operations and activities within the logistics supply chain. In particular, the code deals with issues around fatigue management, loading practices, speed management, vehicle compliance and safety, as well as the management of contractors and sub-contractors.</p>

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<p>CARS Program (community investment initiative)</p>	<p>The Caring About Road Safety (CARS) program was initiated in response to community health and safety issues around increased road traffic in the Project area. It is a partnership between Origin, RACQ and the Queensland Minerals and Energy Academy (QMEA), and is designed to equip new drivers with strategies to reduce their risk of being involved in road incidents.</p> <p>The focus of the training is a balance between behavioural change and appropriate skills acquisition to facilitate increased safety awareness and improve defensive driver behaviour.</p> <p>The program is available to high school students across the Maranoa, Western Downs and Banana Shire Regional Councils.</p>
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Community Engagement Initiatives

Purpose: To ensure that communication with stakeholders is frequent, accurate and timely so that affected communities are able to ensure their own safety. Engagement with government stakeholders also aims to support service providers in the delivery of adequate emergency and health services.

Programs	Description
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<p>Traffic Notification Procedure</p>	<p>At the commencement of construction activities, the Project will keep residents in local areas informed of its operations via advertisements in local newsletters and newspapers, and through public engagement at community events. This notification process is shown in Figure 2.</p> <p>Electronic billboards will also be used around construction sites and at locations where heavy vehicle movements are expected, which detail the construction activities and truck movements taking place to increase awareness for local road users.</p>
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<p>Upstream Complaints Resolution Procedure</p>	<p>This procedure is designed to accurately record complaints received from external stakeholders, and ensure that these are effectively resolved. The process also ensures that the information obtained will be reported with the aim of improving businesses systems, processes and community engagement outcomes.</p> <p>In particular, the procedure proposes a range of tools, including:</p> <ul style="list-style-type: none"> • Assigned <u>case manager</u>, where each complaint is assigned a dedicated case manager according to the nature of the complaint (e.g. land access, workforce conduct). The case manager is responsible for assessing, investigating and resolving the complaint. • <u>ATLAS system</u>, which records the details of all complaints and issues received by the Project. The system allows Origin to track the nature of the complaint as well as the time taken to appropriately resolve the issue.
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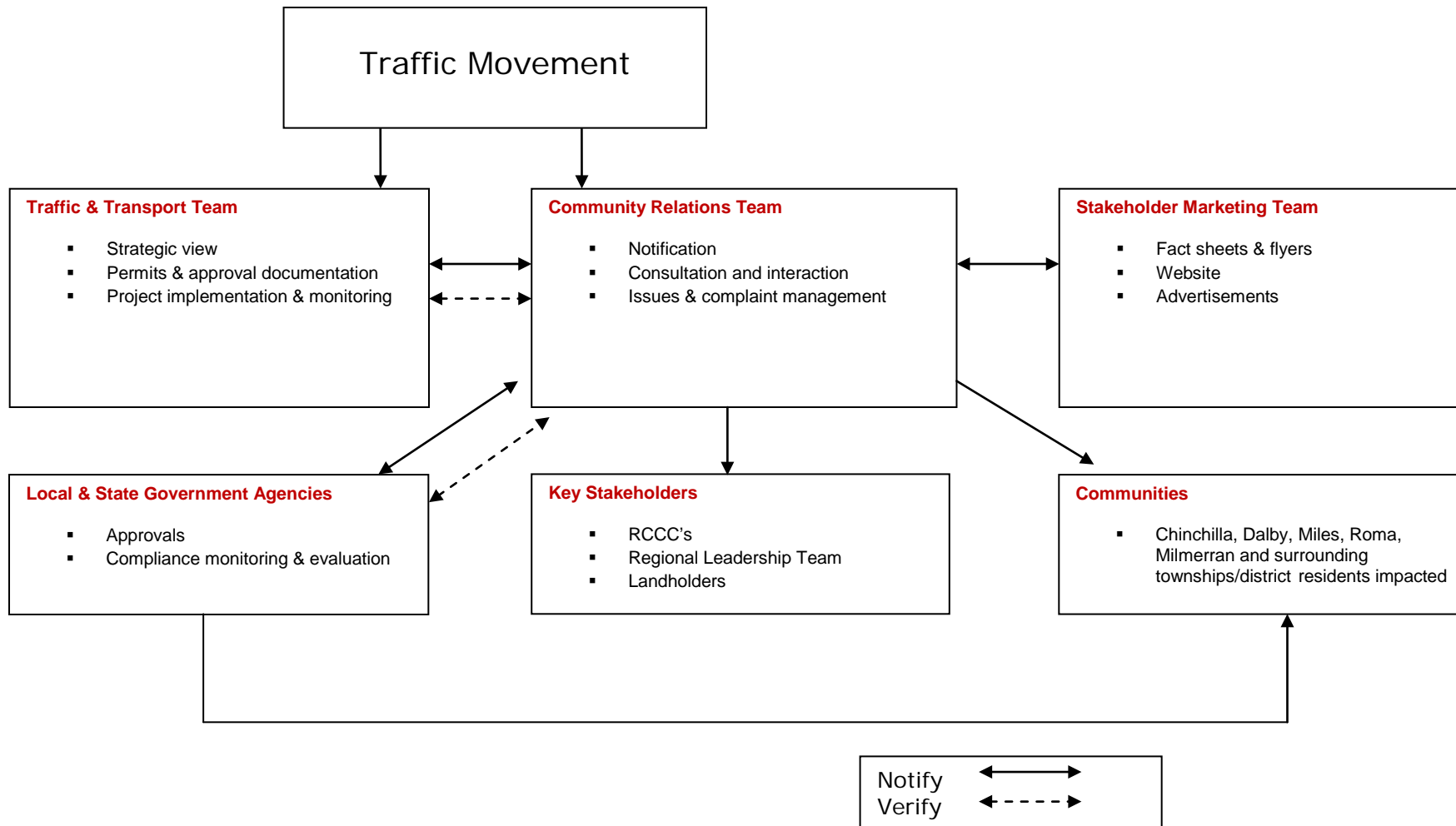
<p>Government Engagement Forums</p>	<p>As described in Table 1, Australia Pacific LNG will maintain regular contact with key government agencies including Queensland Health and Department of Emergency Services.</p> <p>This consultation will be undertaken to help service providers monitor their case loads, plan for required infrastructure upgrades or recruitment, and develop joint mitigation and</p>
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management strategies where required.

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Figure 2 Traffic and Transport Community Notification Process



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Upstream Community Investment Initiatives	
<p>Purpose: To invest in initiatives that support community health and wellbeing, in line with the Community Investment Strategy's priority area, i.e.: <i>Community Safety, Health and Wellbeing</i> – funding that supports safer and healthier communities (including efforts by ambulance, healthcare, police and emergency services) and public welfare activities.</p>	
Program	Description
AME Helicopter Services	This service (as described earlier) is made available to local community members in emergency situations.
Roma Airport Upgrade	<p>In response to the potential for increased road traffic and associated safety issues, Australia Pacific LNG has committed \$1M to support the upgrade of the Roma Airport.</p> <p>This upgrade will allow for a greater proportion of the regional workforce to fly into the area, thereby reducing road traffic into the area. The upgrades will also contribute to the economic development and growth of the broader region.</p>
Maranoa Parenting Van	Community safety includes the safety and wellbeing of children. As such, Australia Pacific LNG has provided \$75,000 - \$90,000 to construct a mobile parenting space for the Roma region. This is an initiative of a local multi-stakeholder group aimed at creating a child-friendly Roma. The parenting space is a van which will provide a clean and safe room for parenting and breastfeeding, and will be used at shows and events throughout the Maranoa Region.
Gas Industry Social and Economic Research Alliance (GISERA)	To contribute towards improving community health and wellbeing, Australia Pacific LNG has provided \$10M to a five year research partnership with CSIRO focussing on social and environmental impacts of the CSG industry. Approximately \$2M of this will fund a social research program.

2.3. Workforce Health and Safety

A safe and healthy workforce is essential to the successful operation of the Project. Similarly, the wellbeing of workers' families, as well as contractors and their families, is also important to Origin Energy. As such, Australia Pacific LNG has proposed a range of initiatives to facilitate positive lifestyles and behaviours, and encourage continued family functioning. These initiatives are described in the tables which follow.

Health and Fitness for Work Initiatives	
<p>Purpose: Establish and maintain the highest possible degree of health and wellbeing for Origin employees, contractors and site visitors.</p>	
Program	Description
Health, Safety and Environmental Management System	<p><u>Health, safety and environmental management system:</u></p> <p>This system provides specific directives around a range of health and wellbeing issues, including:</p>

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	<ul style="list-style-type: none"> • Medical care and response • Case management (injury, illness, disability) • Fatigue (fatigue risk management directive) • Occupational hygiene (occupational hygiene and hazardous substances and secondary containment directive) • Emergency preparedness and response (emergency and crisis management directive) • Training, diversity and inclusion <p><u>Construction Health and Safety Management Plan:</u></p> <p>This Plan applies to all Australia Pacific LNG and Origin Energy personnel, as well as principal contractors, sub-contractors, vendors and service providers conducting activities on upstream sites. Each contractor is also required to prepare its own management plan which is of equal, or better, standard to the Australia Pacific LNG document.</p> <p>The plan provides specific guidance around a range of health and safety issues, including fatigue management, manual tasks, drug and alcohol management, fitness for duty, sun protection, emergency management, security, and workforce behaviour.</p>
<p>Drug and Alcohol Policy</p>	<p>The policy aims to ensure that all employees and contractors are fit for work. The policy outlines specific alcohol and drug limits, as well as testing programs and procedures.</p>
<p>Employee Assistance Program</p>	<p>This program provides counselling and guidance services free-of-charge to employees and their immediate families. The program aims to assist employees in dealing with work-related or personal issues, e.g. stress, depression, conflict.</p> <p>The program is also intended to minimise the impact on local demand for family assistance services.</p>

<h2>Workforce Health and Wellbeing Initiatives</h2>	
<p>Purpose: To promote positive workforce behaviour and actively facilitate integration of the workforce into the host community.</p> <p>Facilitate and provide advice on medical facilities and treatments, health initiatives, health risk assessments and mental health.</p>	
<p>Program</p>	<p>Description</p>
<p>Workforce Code of Conduct</p>	<p>All Project employees, including contractors and sub-contractors, are expected to behave in accordance with Origin Energy's values and principles, and treat others with respect.</p> <p>Australia Pacific LNG requires that each development area (e.g. drilling, gathering) develops its own workforce code of conduct to manage employee behaviour and interactions, particularly within non-resident camps. The development of this code of conduct will also be a contractual requirement for contractors</p>

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	<p>and sub-contractors at each camp.</p> <p>Codes of conduct will be aimed at maximising positive interactions with the community, and avoiding and minimising negative social behaviours. The codes will be communicated to all staff, and will be strictly enforced on site.</p> <p>Origin Energy also has a Liquor Management Guide, directing the use of alcohol by the Project's employees.</p>
Health and wellbeing programs	<p>The Australia Pacific LNG Health Team (QLD) has introduced a suite of health and wellbeing initiatives to promote healthy living in the workforce. These include:</p> <ul style="list-style-type: none">• Provision of medical services• Provision of mental health services• Fitness and nutrition programs• Health risk assessment programs• Behavioural safety assessments and programs
Principal contractor health reference group	<p>Origin Energy provides on-site medical services (refer to Section 2.1), and this reference group engages contractors to determine that all medical services are working and adequate.</p>

2.4. Communicating Health and Safety

Communication is an integral part of the Project's health and safety management function, and is based on the principle of all project employees having a "right to know" about health and safety expectations and performance.

As such, the Project will implement a range of strategies and tools to ensure that messages are communicated in a consistent and timely manner across a range of stakeholders. These methods include:

- Appointing workplace safety representatives, and a workplace safety committee
- Undertaking pre-mobilisation alignment meetings with the principal contractor and relevant sub-contractors
- Conducting safety stand-downs where appropriate
- Undertaking site and management meetings
- Conducting toolbox talks
- Undertaking daily pre-start meetings
- Use of bulletin boards for key safety messages
- Publishing safety alerts
- Implementing a behavioural safety coaching program
- Implementing a behavioural safety observation program

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- Conducting health and safety cultural surveys with relevant stakeholders

3. Strategy Implementation

Table 3 provides a breakdown of the community health and safety commitments in the Project's SIMP, as well as the KPIs, measurement tools and schedules associated with each particular commitment.

Australia Pacific LNG's progress against these actions and commitments will be monitored and tracked in the Project's ATLAS system, which records complaints and grievances and can provide reporting on specific issues or concerns.

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Table 3 Gas fields and pipeline community health and safety action plan

Theme 1: Emergency Response Planning

ID	Action	Measurement	Timing	Responsibility
1.1	Provide workforce numbers to local, state and federal government to assist with infrastructure planning and discussion regarding Australia Pacific LNG's commitment to health and safety initiatives	<ul style="list-style-type: none"> • Workforce statistics and forecasts are provided to local government and the Office for Economic and Statistical Research (OESR) • Australia Pacific LNG works with the Queensland Ambulance Service by providing data to monitor case loads and develop joint mitigation strategies • Australia Pacific LNG works with Queensland Health on strategies to address health and emergency services capacity and demand 	<ul style="list-style-type: none"> • Ongoing • Quarterly through established meetings • Ongoing as required 	<p>Social Performance Manager</p> <p>Safety Manager</p> <p>Social Performance Manager</p>
1.2	Ensure industry leading stringent design standards and testing procedures of infrastructure	<ul style="list-style-type: none"> • Process Hazard Analyses (PHA) actions are tracked via a database and reported on every month • Critical PHA Actions are effectively closed out prior to commissioning • Pre-start-up Safety Reviews (PSSRs) are completed and verified for all facilities and infrastructure activities 	<ul style="list-style-type: none"> • Ongoing tracking – monthly reporting • Prior to commissioning • All PSSRs are in place by the time they are required for the Project 	Maintenance and Engineering Manager

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		<ul style="list-style-type: none"> • All critical PSSR actions are completed prior to start up • Sub-project teams use the approved handover process, and submit Assurance Certificates (C1 to C6), and transfer all required Engineering Information 	<ul style="list-style-type: none"> • Prior to start-up • Completed at time of handover 	
1.3	Undertake Emergency Response Planning for construction and operations in collaboration with emergency service providers and neighbours	<ul style="list-style-type: none"> • A Group Emergency Management Team is established • A Group Emergency Management Plan is developed for implementation • Prior to construction of worker accommodation provide Queensland Ambulance site access information to allow for planning of effective service delivery 	<ul style="list-style-type: none"> • Completed – established for every sub-project • Completed • End June 2012 	Safety Manager
1.4	Provide first emergency response resources on site	<ul style="list-style-type: none"> • An appropriate field medical services provider is appointed on site 	<ul style="list-style-type: none"> • End September 2012 	Safety Manager

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Theme 2: Community Health and Safety

ID	Action	Measurement	Timing	Responsibility
2.1	Expand Community Safety Awareness program in conjunction with industry partners, government and community groups to develop responses to community safety concerns in the region.	<ul style="list-style-type: none"> Traffic management plans and notification processes are implemented to increase road safety awareness 	<ul style="list-style-type: none"> Completed – contracts written to require all contractors to have traffic management plan in place Ongoing implementation 	Safety Manager
2.2	Develop community complaint and grievance policy and communicate.	<ul style="list-style-type: none"> A complaints resolution procedure is developed and implemented 	<ul style="list-style-type: none"> Completed – complaints resolution procedure developed 	Manager: Land Strategy and Stakeholder Relations
2.3	Implement health and safety monitoring for construction and operations and disseminate results through community engagement activities.	<ul style="list-style-type: none"> Health and safety monitoring data are communicated through the RCCC 	<ul style="list-style-type: none"> Biannually 	Social Performance Manager
2.4	Through the development of the Community Investment strategy, identify opportunities to address community health and safety issues, e.g. through the CARS program.	<ul style="list-style-type: none"> The community investment strategy includes a priority around funding for health and safety issues 	<ul style="list-style-type: none"> Complete 	Social Performance Manager
2.5	Minimise road traffic through provision of air transport for long distance commuting workforce, including upgrading a suitable local airstrip to cater for larger aircrafts.	<ul style="list-style-type: none"> Local airports selected for upgrade to optimise air travel and minimise road safety risks 	<ul style="list-style-type: none"> Completed – Miles Airport selected for upgrade 	Logistics Manager

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		<ul style="list-style-type: none"> Charter flights commenced from local airport 	<ul style="list-style-type: none"> Ongoing 	
2.6	Control project related road traffic through implementing a land transport directive, including e.g. an in-vehicle monitoring system	<ul style="list-style-type: none"> Land transport directive adopted All Project vehicles are fitted with IVMS devices 	<ul style="list-style-type: none"> Completed and adopted Completed – contracts written to require all Project vehicles to be fitted with IVMS devices 	Safety Manager

Theme 3: Workforce Health and Safety

ID	Action	Measurement	Timing	Responsibility
3.1	Integrate project rules and code of conduct into recruitment and project induction processes	<ul style="list-style-type: none"> Workforce codes of conduct are developed by contractors for each development area (e.g. drilling, gathering) 	<ul style="list-style-type: none"> Completed – contracts written to require all contractors to have workforce codes of conduct in place 	Safety Manager

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3.2	'Fit for Work' and 'Drug and Alcohol' policies incorporated into Employee contracts and induction program	<ul style="list-style-type: none"> 'Fit for work' clauses (including around drug and alcohol use) are inserted into all contracts in line with the upstream construction HSMP 	<ul style="list-style-type: none"> Completed – contracts written to include 'fit for work' clauses. Alcohol requirement of 0.00% for the Project also embedded in contracts. 	Safety Manager
3.3	Develop and implement safety induction for all employees and contractors to understand responsibility towards safe methods of work	<ul style="list-style-type: none"> Project specific inductions are delivered that comprehensively address workplace hazards, management processes and behavioural expectations The Origin Development Area Induction is rolled out with all Project personnel prior to commencing work within a specific development area The Project's Principal Contractor is required to apply task-specific inductions for "high risk" construction work 	<ul style="list-style-type: none"> Completed – all principal contractors are required to develop their own safety inductions, approved by Origin Energy Ongoing implementation 	Safety Manager
3.4	Develop wellbeing program for employees and contractors	<ul style="list-style-type: none"> The Origin Energy 'Health' program is developed and implemented, incorporating physical and mental health and wellbeing 	<ul style="list-style-type: none"> Completed – 'Health' program developed and approved 	Safety Manager
3.5	Provide orientation for new employees to support employee integration into the region	<ul style="list-style-type: none"> The Origin Energy 'living local' strategy is developed and implemented 	<ul style="list-style-type: none"> Completed – 'living local' strategy developed and approved for 	People and Culture Manager - Upstream

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4. Strategy Evaluation

The evaluation of Australia Pacific LNG's progress against community health and safety objectives will occur through the SIMP Monitoring, Reporting and Review Plan (MRRP). In general the MRRP is designed to:

- Respond to EIS conditions on monitoring social impacts
- Outline internal processes for monitoring Key Performance Indicators (KPIs) of SIMP implementation
- Outline an external reporting framework through which key stakeholders can receive information on SIMP implementation and progress

KPIs relevant to community health and safety will likely include:

- Participation in, and contribution to, key regional emergency response forums to:
 - build relationships with emergency services and health providers and other relevant stakeholders
 - contribute to reporting on demand for local health and emergency services
- Implementation of Road Use Management Plans and Traffic Management Plans to mitigate impacts on road, air and shipping
- Implementation of workforce and community health and wellbeing policies to facilitate a safe environment for employees and communities

In line with the Coordinator General's recommendations, this Strategy will be reviewed biannually for the initial two years of the Project, and then annually thereafter. Reporting will be undertaken:

- Biannually to the RCCC (high level reporting)
- Annually to the Coordinator General through the submission of the internal SIMP report

Evaluation and reporting will be undertaken in consultation with key stakeholders including relevant RCCCs, Councils, Queensland Ambulance, Queensland Health, Queensland Police Service and the Department of Community Safety.

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