Santos

ABN 80 007 550 923

BRIDGING DOCUMENT

for

2005 SOUTHERN MARGINS MARINE SEISMIC SURVEYS

OPERATED BY SANTOS

with

M/V PACIFIC TITAN

Controlled Copy No._____

DOCUMENT NO.:	
TITLE:	BRIDGING DOCUMENT FOR SEISMIC OPERATIONS WITH M/V PACIFIC TITAN

REVISION BOX					
Revision	**Date**	**Description**	**Prepared By**	**Reviewed**	**Approval**
Rev X	XXXXXXX	Issue for Regulatory Review	ASW	JRH	JRH
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003	Multiwave Geophysical Operations Manager
004	Seismic Acquisition Supervisor, Santos, Adelaide
005	Santos On Board Representative
006	Santos Corporate Health and Safety Adviser
007	Santos Corporate Chief Environment Adviser
008	Incident Management Team Room
009	Victorian Department of Primary Industries (DPI)
010	Tasmanian Department of Primary Industries, Water and Environment (DPIWE)

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Abbreviations

ALARP	As Low As Is Reasonably Practicable.
AMSA	Australian Maritime Safety Authority
CASA	Civil Aviation Safety Authority.
DPI	Victorian Department of Primary Industries
DPIWE	Tasmanian Department of Primary Industries, Water and Environment
ERP	Emergency Response Plan.
EOC	Emergency Operations Centre
EHS	Environment, Health & Safety
EHSMS	Environment, Health & Safety Management System
ERT	Emergency Response Team
IMT	Incident Management Team
JHA	Job Hazard Analysis.
MSDS	Material Safety Data Sheets.
OBR	On Board Representative
OHS	Occupational Health and Safety.
POB	Persons on Board
SAR	Search and Rescue
SITREP	Situation Report

1. PREFACE

This document and the project specific Environment Plan makes up the Santos Ltd contribution to the seismic operations submission. Multiwave Geophysical Companies (Multiwave) contribution to the seismic operations submission will be the Contract Project Safety Plan.

These documents demonstrate the safety and environmental management for Santos seismic operations. These documents must be read together to fully demonstrate that the hazards associated with the seismic operations have been identified and that management systems are in place to reduce the risk to as low as reasonably practicable.

The Bridging Document creates a bridge between Multiwave's Contract Safety Plan and the Santos Environment, Health & Safety Management System (EHSMS) as detailed in the project specific Environment Plan.

Multiwave is responsible for operating the vessel while carrying out the seismic operation and for interfacing with the service contractors at the operations level on the vessel to ensure the safety of all personnel on board and to ensure that the seismic operations are conducted in a safe manner.

Santos has the responsibility of ensuring that the procedures proposed by Multiwave for seismic operations are adequate to ensure seismic operations are conducted in a safe manner.

This document demonstrates that adequate arrangements have been made to coordinate safety management systems between Multiwave and Santos.

The bridging document contains the following sections:

- Site Description;
- Safety Management System - integrated and linked between the Operator and Vessel Operator;
- Hazard Assessment - for the campaign.

2. INTRODUCTION

2.1 Objective

This document demonstrates that

Santos can conduct a safe seismic operation with Multiwave;

- The Safety Management System covering all seismic operations has been defined and is clearly stated; and
- Where components of Santos and Multiwave may be jointly used, the interfaces are clearly defined and operable.

2.2 Scope

This document will encompass work in Australian waters carried out by Santos using Multiwave 'Pacific Titan' during 2005 Southern Margins 2D Seismic Surveys.

Multiwave Contract Safety Plan has been reviewed as described in Section 2.3 below and is accepted by Santos as being suitable for the seismic operation.

2.3 Methodology

The process for developing the bridging document involved the following steps:

- Review of the Santos Environment, Health & Safety Management System;
- Review of Multiwave Contract Safety Plan;
- Review of the identified vessel hazards; and
- Identification of Safety Management System responsibilities and interfaces between Santos and Multiwave.

2.4 Primary Reference Documents

A number of documents are produced specifically to enable safe seismic operations and referred to frequently in the course of this document. These are the:

- Santos Environment, Health & Safety Management System (EHSMS);
- Santos - Incident Management Plan (Rev 2);
- Santos – Project Specific Environmental Management Plan;
- Multiwave Contract Safety Plan.

3. DESCRIPTION OF OPERATIONS

3.1 General

The work involves the acquisition of up to approximately 2309 kilometres of full fold 2D (2531 Surface Km) seismic data by Santos within petroleum exploration permits as detailed in the table below. Santos will acquire the seismic on behalf of the operator listed below for non Santos operated permits.

Permit	Permit Operator	Proposed Acquisition (Surface Km)	Source Interval (Metres)	Streamer Length (Metres)	Water Depth Range (Metres)
T/32P	Santos	804	25	6000	100-2900
T/33P	Santos	500	25	6000	100-2000
T/40P	Santos	883	25	6000	100-1400
VIC/P50	Essential Petroleum	344	25	6000	200-2500

The survey will be acquired between March and May 2006 dependant upon vessel availability and last approximately 5 weeks. Mobilization is expected to take place from Portland. It is envisaged that a single crew change will be necessary during the course of the survey. The M/V Pacific Titan is expected to tow one streamer up to 6000m long at a depth of approximately 6 metres and energy source up to 3200 cu.in. towed at a depth of approximately 7 metres. The operating pressure of the airguns will be maintained at 2000 psi.

3.2 Metocean Conditions

A chart review has been completed which is summarised in the table below:

Permit	Comments
T/32P	No obstructions or shoals in survey area.
T/33P	No obstructions or shoals in survey area.
T/40P	No obstructions or shoals in survey area.
VIC/P50	No obstructions or shoals in survey area.

By necessity, the survey will be conducted when storms can develop. The vessel is fitted with weather monitoring equipment. The vessel also has access to several sources of weather information including weather fax data and Coastal Radio Station broadcasts for weather prognosis/warnings. The decision to recover equipment and proceed to shelter in the event of adverse weather ultimately lies with the Master of the 'Pacific Titan'.

3.3 Site

The proposed seismic surveys are detailed in the table on the previous page. The surveys are situated along the western coast of Tasmania (T/32P & T/33P), the western coast of King Island (T/40P) and the south western coast of Victoria (VIC/P 50).

Commercial traffic in the form of fishing vessels can be expected in all survey areas and the VIC/P50 survey is on major shipping channels.

A location map is shown in Appendix 1.

3.4 Vessels

3.4.1 Seismic Vessel – M/V Pacific Titan

The worksite is the M/V Pacific Titan that is designed and built for worldwide seismic investigation and exploration. The M/V Pacific Titan has a purpose built back deck, where all work involved in the deployment and retrieval of streamers and energy sources is carried out, a dedicated instrument room, where all instrumentation required for survey is housed, and living accommodation to house the normal complement of approximately 40 persons at any one time during the survey.

The vessel is equipped with a dedicated helideck however helicopters will only be used for medevac purposes. The vessel is also equipped with a workboat.

At the end of the towed streamer there will be a tail-buoy which is a pvc mini-pontoon structure, painted yellow and equipped with a radar reflector and at night, a quick flashing white light. DGPS navigation receivers are installed on the tail-buoy to provide streamer positioning details.

3.4.2 Scout Vessel

Due to the minimum water depth of 100m and no obstructions, it is not anticipated that a scout vessel will be required for any of the survey areas. A support vessel may be used to direct shipping and fishing vessels away from the towed equipment and act as a standby vessel during small boat operations.

3.5 Special Requirements

In addition to the final navigation data, Santos requires all offline vessel locations to be recorded and submitted upon completion of the survey. Offline locations are vessel positions when the vessel isn't recording, or more specifically, anything not covered by the final P1/90 navigation data. (eg: soft start, line change, standby etc). Frequency of recording of these positions is flexible, however Santos would suggest a location every one – three minutes would be sufficient.

3.6 Public Liability

All activities associated with the completion of this survey are covered by Santos Public Liability Insurance cover. A copy of the Certificate of Currency is suppled in Appendix 4 which provides details of the cover.

4. SAFETY MANAGEMENT SYSTEM

The Safety Management System interfaces on the 'Pacific Titan' are managed by the Multiwave Master and Santos Onboard Representative. The safety critical systems of safety management are the Multiwave Safety Plan. This is a top level document and provides and overview of all HSE related matters. Supporting the manual are Procedures and Work Instructions which are more specific and detailed. In all these areas, Multiwave Safety Management System prevails.

4.1 Policy and Objectives

Santos implements the Health, Safety and Welfare policy as described in the Santos Environment, Health & Safety Management System (EHSMS).

Multiwave' Safety Policy statement is located in their HSE Manual as well as being posted on the 'Pacific Titan'.

Santos and Multiwave safety policies, goals and objectives were reviewed prior to the start of operations and are compatible.

Personnel health and safety obligations, for both companies, are detailed in company safety policies and job descriptions. Performance reviews and safety award programs provide a means to check the achievement of company objectives.

Communication of campaign objectives is through posted policies and project documentation.

Personnel involvement is a requirement as stated in the policy and cascades down through both company management systems through participation in safety programs and safe work procedures.

4.2 Organisation and Responsibilities

The reporting structure between Santos and Multiwave personnel is shown on Appendix 2.

Personnel roles and responsibilities for Santos are found in the Santos "EHSMS05: Responsibility and Accountability". Multiwave personnel roles and responsibilities are located in their HSE Manual.

Communication of information is the responsibility of the line supervisor as shown on the Multiwave organisation chart. The 'Pacific Titan' Master communicates directly to any personnel on board with respect to vessel management or safety.

The Santos EHSMS describes the meetings that are used to inform personnel of work programme information and safety information.

Multiwave has regular meetings to discuss current and planned activities. Third party supervisors attend these meetings.

Multiwave has the lead role to communicate to new personnel their responsibility for safety on the 'Pacific Titan'.

The 'Pacific Titan' Master is responsible for the safe operation of the vessel on a daily basis and has overall responsibility for the operations on board and vessel safety system integrity.

4.3 Personnel Involvement and Communication

Involvement of personnel in the safety management process is achieved through the following:

Multiwave

- Start up Meetings;
- HSE Meetings;
- Toolbox Meetings;
- Weekly Evercises
- End of job debriefing

Santos

- Project planning and meetings;
- Hazard reviews;
- Operation meetings

(refer to Santos " EHSMS07: Consultation & Communication")

Occupational risk, day-to-day risk management and communication occur through safety alerts, Operator work instructions and meetings as detailed above.

4.4 Hazard Identification and Risk Management

Multiwave has a hazard register incorporated into the Contract Project Safety Plan.

4.5 Objectives, Plans and Performance Standards

Santos and Multiwave detail health and safety objectives and standards in annual HSE Plans. These are evaluated at the end of the appropriate time period.

Santos include performance standards in their EHS Management System components. (eg. Objectives, Plans and Performance Review)

HSE Plan objectives and outcomes are communicated via reports, safety meetings and management reviews.

4.6 Management of Change

The Santos Senior Acquisition Supervisor and Multiwave Project Manager will continually monitor operational progress to determine if any proposed changes may invalidate the Bridging Document. If this occurs, they will convene a team to assess the change and determine the impact on the Bridging Document.

If a hazard that may occur is identified, the barriers to minimise the hazard are identified and the line management communicates this information to personnel.

Communication of change is carried out as part of the common communication process outlined in Section 4.3 of this document.

4.7 Safe Operational Procedures

Safe operational procedures have been developed for each activity in the seismic process. The majority of safety critical procedures followed are Multiwave procedures and all procedures undertaken are managed by Multiwave. The following is a list of existing documents that contain procedures that will be followed for the campaign:

- Multiwave QHSE Manual
- Multiwave Offshore Emergency Response Plan;
- Multiwave Contingency Plan;
- Swire Pacific Contingency Plan;

Where any doubt or clash may exist, Multiwave procedures will be followed. If procedures do not exist (e.g. for a new or uncommon activity), Multiwave will create a new procedure.

Training of personnel in the use of the procedures is undertaken by Multiwave.

4.8 Employee Selection, Competency and Training

Multiwave is responsible for training and ensuring all personnel at site are competent to participate in the Permit to Work process and all relevant personnel are trained to their Emergency Response requirements.

Santos is responsible for ensuring the 'Pacific Titan' Master is familiar with Santos Emergency Response systems.

4.9 Emergency Response

The Emergency Response plans for Santos and Multiwave have been reviewed

Responses to emergencies on or near the Pacific Titan will be governed by Multiwave's Offshore Emergency Response Plan and both Multiwave's & Swire Pacific Offshore's Contingency Plans. There may however be situations where the emergency will require, or could potentially require, assistance beyond the resources of Multiwave. Should such an incident occur the Santos Incident Management plan will be implemented. (see Appendix 3)

In such situations the Santos On Board Representative (SOBR) will be informed at the earliest opportunity that the incident requires, or has the potential to require, Santos assistance. The SOBR will notify the Santos Emergency Response Team (ERT) and will subsequently act as the prime communication link between ERT, the Pacific Titan Master and the Pacific Titan Party Manager.

Once the ERT become involved, it is crucial that communication is concise and both Santos and Multiwave understand precisely what responsibilities each has. Both organisations may use any onshore resources listed in both the Santos and Multiwave emergency response plans and it is crucial that no duplication of effort occurs.

The appendix 2 and 3.2 organisation charts detail both the line management and response routes.

The emergency contact numbers (appendix 3.1) will facilitate communication during the period of the emergency.

For more significant incidents affecting Santos business activities, the Emergency Coordinator shall notify the Activity Manager whose responsibility it is to contact the Santos Duty Incident Manager. The Duty Incident Manager is responsible for activating the Santos Incident Management Plan (SIMP). The SIMP details the procedures for contacting the IMT Duty Incident Manager.

The Duty Incident Manager will monitor and review the incident and if necessary activate the Incident Management Team.

Roles and Responsibilities of the Santos Emergency Response Team are summarized in Appendix 3.3 and the Santos “Health and Safety Vision and Policy” is included in Appendix 3.4

4.10 Incident Reporting and Investigation

Incident investigation, reporting, and follow-up are carried out in accordance with Multiwave Incident Investigation and Reporting procedures that are detailed in the HSE Manual. Multiwave investigation, reporting and follow-up systems will be used. The investigation team will be made up of Multiwave and Santos on board personnel as required. The Santos Senior Acquisition Supervisor will be responsible for reviewing the investigation report.

Investigation outcomes are reported within both organisations and are included in safety meetings as and when required on the vessel.

Responsibility for reporting any incidents to the relevant statutory authorities lies with Santos.

5. HAZARD ASSESSMENT

Hazard review has taken place and hazards have been assessed. Control and mitigation factors have been introduced to reduce the risk to personnel.

The assessment of the hazards of this campaign, incorporating the controlling and mitigating factors is considered to be as low as reasonably practicable.

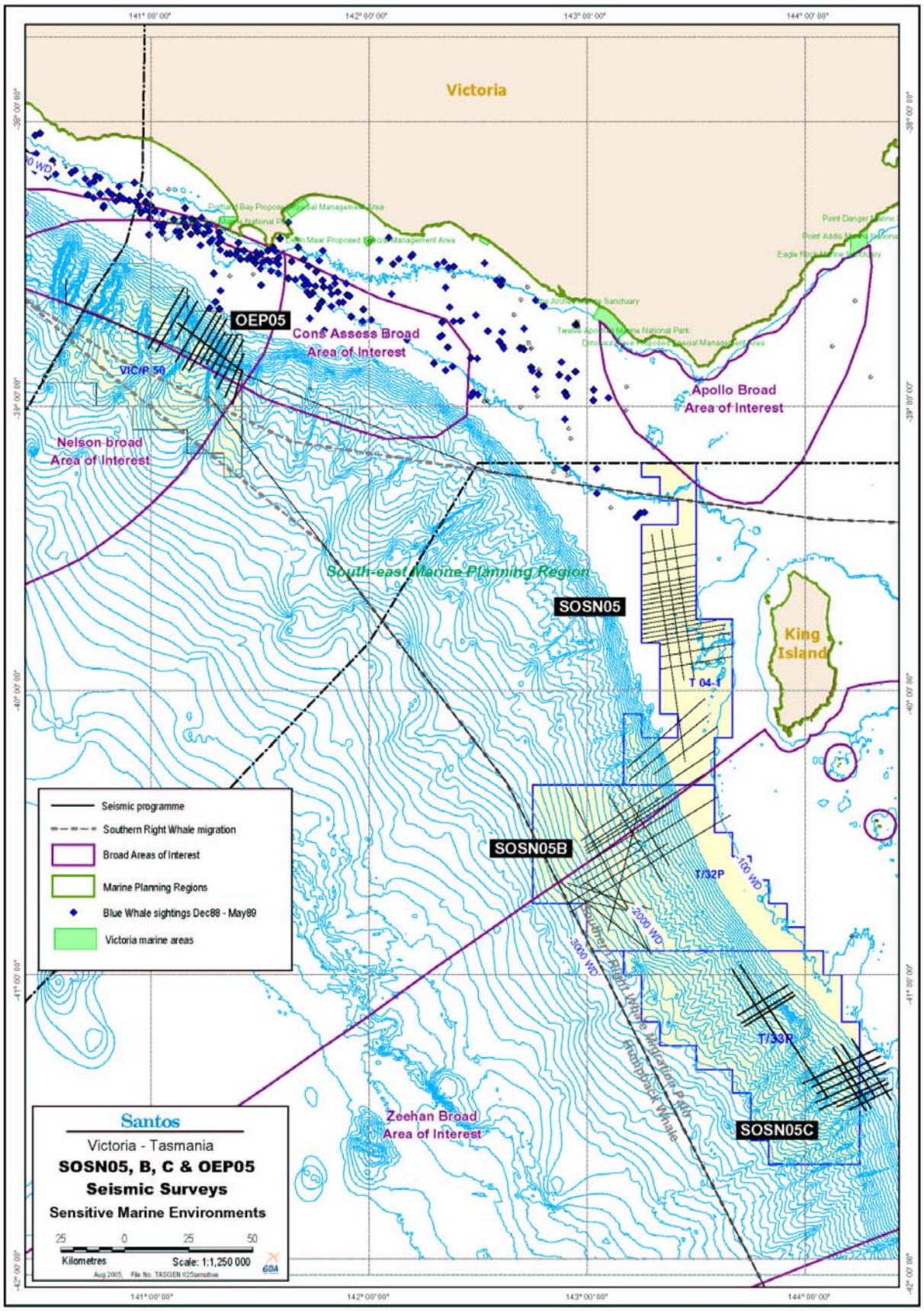
Reassessment will occur if risk factors change significantly during the planned operations.

5.1 Hazard Register

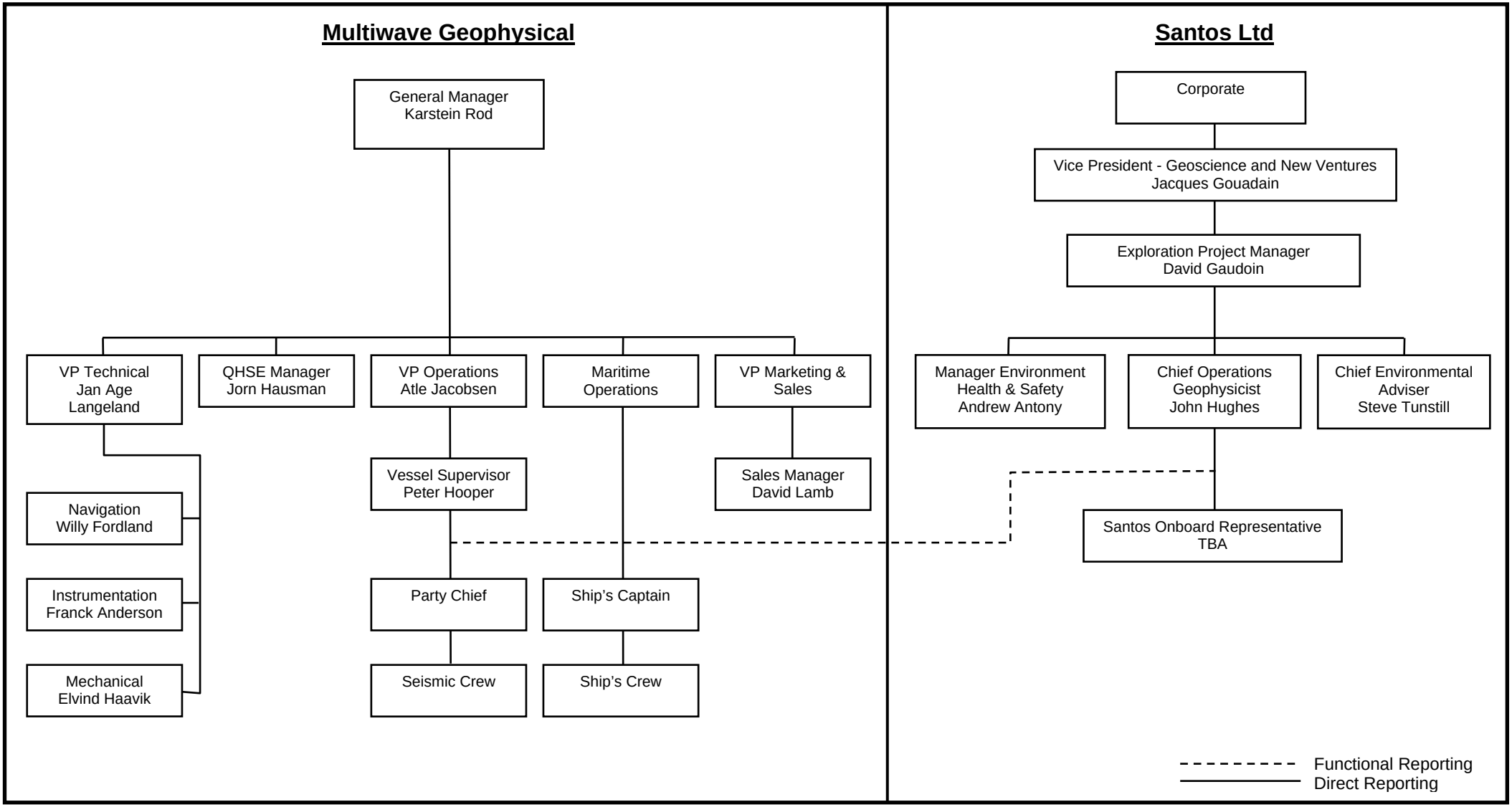
Multiwave will perform a final assessment of hazards when on site and if any additional hazards or obstructions are identified, then documentation on managing these risks shall be prepared accordingly. However, Multiwave has a Hazard Register containing all the anticipated hazards for the forthcoming campaign.

Any new hazards identified in the planned hazard identification workshops will be carried forward onto the Hazard Register, and appropriately assessed.

APPENDIX 1 PROGRAM LOCATION MAP



APPENDIX 2 PROJECT ORGANISATION STRUCTURE



APPENDIX 3 PROJECT INCIDENT RESPONSE DETAILS

3.1 Emergency Contact Numbers

Santos

Santos Incident Management Team (IMT) & Alternatives	**Work**	**After Hours**	**Mobile**	**Fax**
Activity Manager				
1. David Gaudoin			0400 034 227	
Duty Incident Manager				
1. Jon Young	08 8224 7505		0417 085 206	08 8218 5970
2. Roger Kennett	08 8224 7846		0419 180 935	08 8224 7965
3. Nick Lagonik	08 8224 7349		0400 383 020	08 8224 7113
4. Mark McFarlane	08 8218 5269		0438 788 138	

Santos Emergency Response Team (ERT)	**Work**	**After Hours**	**Mobile**	**Fax**
John Hughes (Emergency Coordinator)	08 8224 7952	08 8278 6781	0428 786 781	08 8224 7258
Alan Jones (Emergency Controller)	08 8224 7303	08 8357 6212	0427 520 773	08 8224 7258
Stuart Brew (Support Coordinator)	08 8224 7625	08 8278 7515	0412 552 055	08 8224 7258
Andrew White (Information Coordinator)	08 8224 7260	08 8332 2949	0417 086 407	08 8224 7258

All other Santos contact details can be found in the Santos Incident Management Plan

Multiwave

Name	**Work**	**After Hours**	**Mobile**	**email**
Emergency Room (24Hr)	+47 5536 5957			
Contingency Room	+47 5611 3108			
Atle Jacobsen (VP Operations)	+47 5611 3115		+47 9771 5336	Atle.jacobsen@mgc.no
Jorn-Erik Hausmann QHSE Manager	+47 5611 3116		+47 9588 1939	joern.hausmann@mgc.no
David Lamb (Area Sales Manager)	+65 6396 5070		+65 9191 3333	David.lamb@mgc.no

M/V Pacific Titan

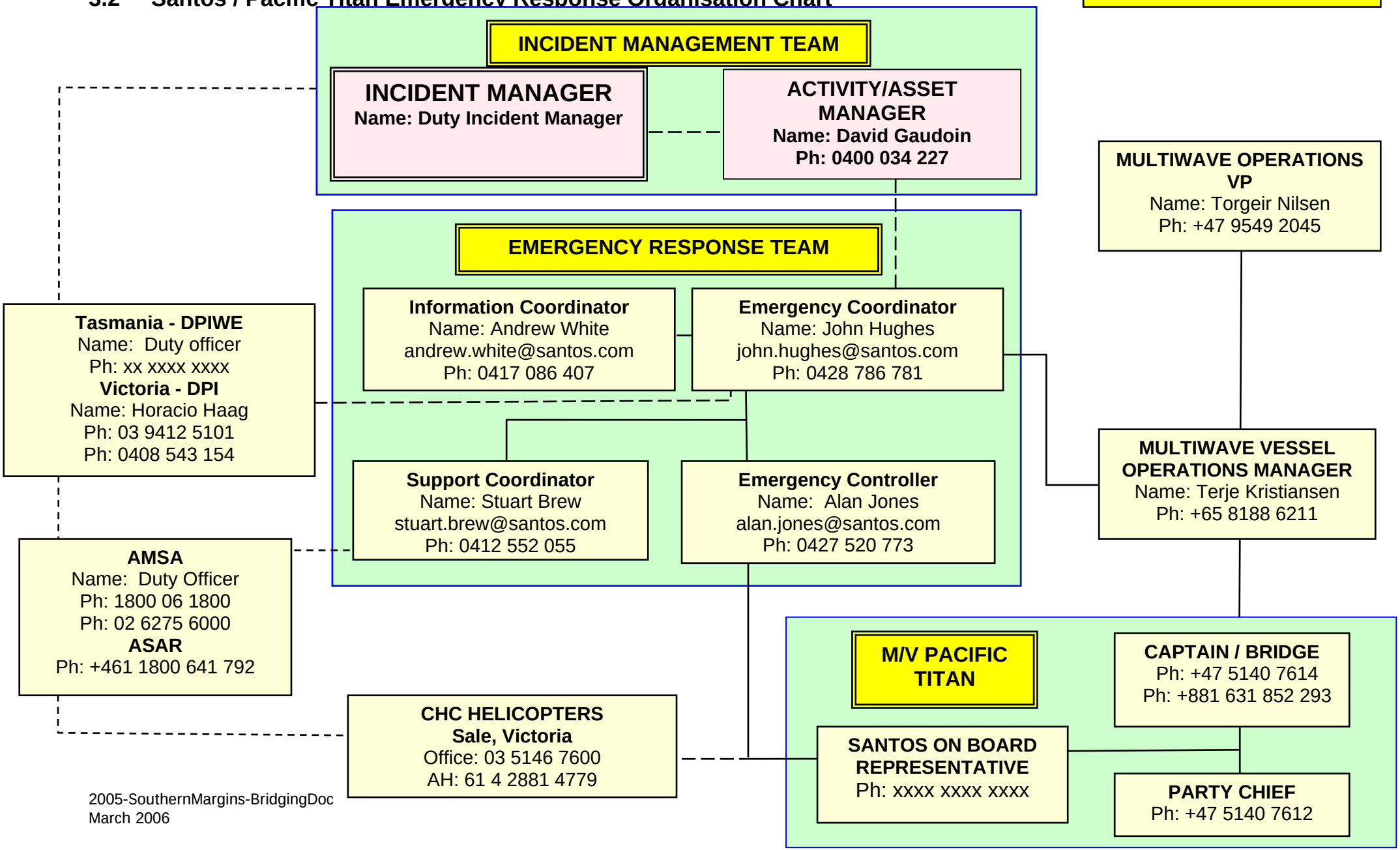
M/V Pacific Titan	**Contact Details**
Radio Call Sign	9V5935
Telephone (Inmarsat-B)	870 356 304 510
Facsimilie (Inmarsat-B)	870 356 304 511
V-SAT Bridge	+47 5140 7614
V-SAT Party Manager	+47 5140 7612
V-SAT Recording Room	+47 5140 7613
V-SAT Client	tba
Email Party Manager	pc.titan@mgc.no

Onshore

Name	Location	Contact Details
Police	Portland	03 5523 1999
	Warnambool	03 5562 1111
Ambulance	Portland	000
	Warnambool	000
Hospitals	Portland	03 5521 0333
	Warnambool	03 5563 1666
	Melbourne (Prince Alfred)	03 9276 2000
Medevac	CHC Helicopters (Sale)	03 5146 7600 Ph 61 4 2884 4779 (AH)
Australian Maritime Safety Organisation		08 9430 2100 (Ph) 08 9430 2121 (Fax)
Maritime Rescue Coordination Centre		02 6230 6811 (Ph) 02 6230 6868 (Fax)
Tasmanian Department of Industries, Water and Environment		Tba
Victorian Department of Primary Industries		Tba

Last Update: 15th March 2006

3.2 Santos / Pacific Titan Emergency Response Organisation Chart



3.3 Roles & Responsibilities

Emergency Management Team

EMERGENCY ROLE PROFILE
• **Provides technical, logistics, support and assistance to the Pacific Titan and associated response during an emergency** • **Manages the wider external requirements and outcomes of the emergency** • **Develops the tactical method for the Pacific Titan to contain, mitigate and recover from an emergency**

First ERT Person To Arrive At EOC

EMERGENCY ROLE PROFILE	
• **Reports to Santos Emergency Coordinator** • **Prepare the EOC for an emergency response by ERT Members** • **Establish contact with the Santos On Board Representative on the Pacific Titan**	
PRE-EMERGENCY	
1 Maintain familiarisation with **Santos** and Multiwave ERP's, key emergency respondents and the respective notification and callout requirements	☐
EMERGENCY ACTIONS	
2 Open, clear and prepare the EOC for use	☐
3 Set up EOC equipment	☐
4 Connect phones to match the numbers on telephone sockets	☐
5 Clean and prepare whiteboards as information boards if required	☐
6 Locate a copy of any related Emergency Procedures	☐
7 Place in/out trays for ERT members with checklists, nameplates, etc	☐
8 Check there is an adequate supply of whiteboard pens, cleaners, fax paper, and stationary	☐
9 Ensure all positions are labeled with the correct phone number extensions	☐
10 Check all equipment is operational	☐
11 Photocopy log sheets and distribute	☐
12 Establish contact with the **Santos** On Board Rep. to advise the EOC is functional	☐
13 Provide the telephone and fax numbers (and e-mail address, if appropriate) for the EOC and request call back (when appropriate) to test communications	☐
14 Assume your designated role in the ERT	☐

Santos Emergency Coordinator

EMERGENCY ROLE PROFILE

- **Reports to Santos incident Manager and ensures the IMT is kept aware of all emergency response activities**
- **Lead the ERT in development and implementation of strategies and tactics that provide a safe, efficient and cost effective response to a Pacific Titan emergency situation**
- **Provides tactical support to the Incident Controller and IMT**

PRE-EMERGENCY

1. Responsible for overall management of **Santos** Offshore seismic operations ☐
2. Will be conversant with **Santos** and Multiwave ERP's, key emergency respondents and the respective notification and callout requirements ☐

EMERGENCY ACTIONS

3. Confirm callout and ETA at Emergency Operations Centre (EOC) if after-hours ☐
4. **Alert** emergency contact(s), **Confirm** details, **Activate** resources ☐
5. Initiate ERT callout as per Contact Directory and ensure all roles are appointed ☐
6. Ensure Emergency Operations Centre (EOC) is activated as appropriate ☐
7. Have all Pacific Titan communication channels and phone lines kept clear ☐
8. If Pacific Titan communications fail, liaise with Support Vessel Master(s) for communications; ensure SAR organisations are notified of communications failure and updated contacts ☐
9. Ensure SITREP is completed by Santos On Board Rep. with as much detail as possible; request it be updated regularly ☐
10. Assess extent of emergency and classification; initiate response activities as appropriate ☐
11. Hold situation briefing with all ERT personnel at earliest opportunity; maintain regular briefings throughout response ☐
12. Ensure early notification to IMT as appropriate; maintain liaison ☐
13. Ensure weather charts are received regularly (every 3 hours or as required) and are transmitted to the Pacific Titan if required ☐
14. Liaise with IMT in regard to nominating a **Santos** Remote Spokesperson role as appropriate ☐
15. Liaise with Third Party Contractor Management ☐
16. Create initial response strategy in conjunction with **Santos** On Board Rep. and Third Party Contractor Management ASAP, maintain liaison ☐
17. Ensure SITREP's are sent to IMT as appropriate ☐
18. Direct Shorebase emergency activities and ensure all personnel involved are familiar with their emergency roles and legal requirements to be followed ☐
19. Have current POB manifest and personnel details available ☐
20. Oversee management of activities between emergency site and support requested ☐
21. Allocate resources for mobilisation and coordination of all emergency support requested by Pacific Titan and/or Support Vessel ☐

Santos Emergency Coordinator (Cont.)

22. Keep informed of developing emergency situation and relate data to other company/contractor interests and coordinate their requests ☐
23. Ensure early contact is made with local, state, federal, international regulatory authorities, Police and/or Coroner as appropriate, have contacts logged and liaison maintained ☐
24. Consider restricted airspace around incident site; **Santos** on Board Rep., ERT and Helicopter Management; initiate as appropriate ☐
25. Arrange additional support to staff ERT communications and administration activities; ensure a timed log is kept of all incident activities ☐
26. Ensure technical specialists likely to be required are put on standby early ☐
27. Consider aerial/site photography for complete pictorial record of incident ☐
28. Approve **Santos** external information releases in conjunction with Incident Manager and Third Party Contractor Management ☐
29. With IMT, assist with the development of an initial media release ☐
30. Consult IMT Legal Adviser if situation requires advice on any contractual provisions which may be contingent to the emergency or the response ☐
31. Consult with IMT and MULTIWAVE regarding establishment of Relatives Response ☐
32. For an extended response, ensure a dedicated Relatives Response call line is established ☐
33. Confirm Santos personnel records prior to providing information to callers claiming to be relatives of personnel onboard the Pacific Titan ☐
34. Have Santos "Next of Kin" information available to person taking/making calls, ensure phone is manned and personnel are briefed thoroughly ☐
35. Ensure all Relatives Response and Media calls are taken outside of the EOC. ☐
36. Consider having relative(s) of any injured personnel transported to the hospital where any injured have been repatriated ☐
37. Materials and Logistics to organise Evacuation/Medivac flights as required ☐
38. For Fatality, initiate incident investigation in preparation for Police/Coroner's investigation and ensure information requested in Fatality Checklist is recorded ☐
39. Ensure employers of 3rd Party Contractors onboard advised of incident status; update regularly ☐
40. Ensure incident financial activities are recorded and maintained (charge account numbers etc.) associated to incident purchases ☐
41. Consider relief for your position and other ERT members if extended response ☐
42. Maintain personal log of incident events, actions, messages and decisions; provide to ERT Information Coordinator at the conclusion of any incident ☐

POST-EMERGENCY

43. Chair debrief of key personnel involved in the incident response before standing them down ☐
44. Consider a debrief of key external response agency personnel involved, via tele-conference if necessary ☐
45. Initiate the development of a post emergency action and responsibility plan ☐
46. Review incident response; provide recommendations for improvements or ERP updates ☐
47. Ensure key respondents provide incident reports at the conclusion of any incident/emergency and provide to the Incident Manager. ☐

Emergency Controller

EMERGENCY ROLE PROFILE

- **Reports to the Santos Emergency Coordinator**
- **Liaises directly between the Santos On Board Rep and the ERT**
- **Establishes control of and oversees the Shore based response to an emergency and ensures all appropriate support is provided to the Pacific Titan response**

PRE-EMERGENCY

1. Maintain familiarisation with **Santos** and Multiwave ERP's, key emergency respondents and the respective notification and callout requirements ☐
2. Ensure familiarity of all relevant response agencies, their key personnel and their respective notification and callout requirements ☐

EMERGENCY ACTIONS

3. Confirm callout and ETA if after hours ☐
4. Liaise with Emergency Coordinator for incident briefing and likely requirements ☐
5. Assist with assessing extent of emergency and classification ☐
6. Assist with establishing initial response strategy in conjunction with Emergency Coordinator, **Santos** On Board Rep and Third Party Contractor Management ASAP ☐
7. Assume role of Emergency Coordinator if usual incumbent unavailable; refer to Emergency Coordinator roles for direction ☐
8. Review SITREP and ensure it is forwarded to relevant response members ☐
9. Ensure Helicopter contractor is on standby for possible Evacuation/Medivac ☐
10. Keep informed of the developing emergency situation and ensure relevant information is passed to other company/contractor Interests ☐
11. Provide integrated technical advice and assessment on response strategies ☐
12. Coordinate all engineering / technical resources and liaise with technical specialists ☐
13. Ensure adequate support is continually available for response effort ☐
14. Prepare and/or review technical information for IMT prior to media releases ☐
15. Monitor and prepare ongoing assessment of technical response effectiveness and develop further strategies as required ☐
16. Ensure all SAR organisations are notified of status immediately ☐
17. Assist with assigning/requesting additional support for Shore based communications and administrative activities; ensure log is kept of all incident actions ☐
18. Advise technical specialists likely to be required and put them on standby ☐
19. Assist with ensuring procurement of all needed equipment, supplies, specialist and technical support personnel and services are under way ☐
20. Assist with developing initial **Santos** media release with IMT/ERT ☐
21. Ensure weather reports are regularly received and transmitted to the Pacific Titan if required ☐
22. Consider relief for your position for an extended incident response ☐
23. Maintain personal log of incident events, actions, messages and decisions; provide to ERT Information Coordinator at the conclusion of any incident ☐

POST-EMERGENCY

24. Contribute to incident debrief (tele-conference if necessary) ☐

Support Coordinator

EMERGENCY ROLE PROFILE

- **Reports to the Santos Emergency Coordinator**
- **Provides OHS&E advice for emergency response activities and work practices**
- **Coordinates ERT support and technical resources to the emergency**

PRE-EMERGENCY

1. Maintain familiarisation with **Santos** and Multiwave ERP's, key emergency respondents and the respective notification and callout requirements ☐

EMERGENCY ACTIONS

2. Confirm callout if after hours ☐
3. Liaise with Emergency Coordinator for incident briefing and likely requirements ☐
4. Initiate any relevant emergency support calls (Helicopter Contractor Management, Support Vessel Contractor Management, contracted Doctor, Trauma Centre etc.) ☐
5. Make early contact with all local, state, federal, International regulatory authorities, Police and/or Coroner, ensure contacts are logged and liaison maintained ☐
6. Provide OHS&E advice for emergency response activities and work practices ☐
7. Assist with technical assessment and potential extent of the emergency ☐
8. Coordinate all engineering and technical resources and liaise with technical specialists to ensure adequate support is continually available for response effort ☐
9. Advise Emergency Coordinator of technical specialists likely to be required and put them on standby ☐
10. Assist with ensuring procurement of all needed equipment, supplies, specialist and technical support personnel and services are under way ☐
11. Be pro-active in developing technical/engineering strategies; prepare advice on critical issues ☐
12. Ensure all SAR and external response agencies are notified of any change in Pacific Titan communications immediately ☐
13. Notify Information Coordinator of results of all contacts made and log all calls and ring backs ☐
14. Provide input into and develop incident safety plan ☐
15. Consult with IMT Legal Adviser if situation requires advice on any duty of care, due diligence, safety or contractual provisions associated to the emergency ☐
16. Confer with Emergency Coordinator regarding restricted airspace at incident site; advise when in place ☐
17. Maintain liaison with contracted Doctor, Hospital and Pacific Titan Medic as required ☐
18. Assist with providing SITREP details to relevant SAR services ☐
19. Confer with MULTIWAVE regarding Relatives Response, ensure efforts are made to avoid confusion or conflicting information being released to relatives ☐
20. Reconcile casualty reports and arriving evacuees with Pacific Titan POB manifests ☐
21. Ensure relevant Proforma's are filled in and transmitted (MEDIVAC REPORT etc.) ☐
22. Do not talk to the Media at any time unless authorised by the Emergency Coordinator, ☐
23. Consider relief for your position for an extended incident response ☐
24. Maintain personal log of incident events, actions, messages and decisions; provide to ERT Information Coordinator at the conclusion of any incident ☐

POST-EMERGENCY

25. Contribute to incident debrief (phone conference if necessary) ☐
26. At the conclusion of the incident, investigate and prepare full report for **Santos** Management, provide recommendations for response improvements or ERP updates ☐

Information Coordinator

EMERGENCY ROLE PROFILE

- **Reports to the Santos Emergency Coordinator**
- **Ensures a chronological summary of key events is maintained and coordinates the display of information on the EOC incident board**

PRE-EMERGENCY

1. Maintain familiarisation with **Santos** and Multiwave ERP's, key emergency respondents and the respective notification/callout requirements ☐

EMERGENCY ACTIONS

2. Confirm callout and ETA if afterhours ☐
3. Proceed to EOC ☐
4. Set up EOC and ensure all likely operational, communication, administration requirements are available ☐
5. Arrange additional support staff for ERT Shorebase communications / administrative activities as required ☐
6. Liaise with Emergency Coordinator for incident briefing and likely requirements ☐
7. Maintain chronological summary of key events; coordinate display of information on EOC Incident Board ☐
8. Filter incident events information to Emergency Coordinator ☐
9. Utilise Emergency Response Logbooks ☐
10. Review SITREP's for update information ☐
11. Track regulatory authority notifications ☐
12. Ensure refreshment requirements are available ☐
13. Prepare supporting information for media releases ☐
14. Plot and update weather alert calculations and ensure weather reports are regularly transmitted to the Pacific Titan ☐
15. Ensure down-manning strategies are on schedule ☐
16. Do not talk to the Media at any time. ☐
17. Consider relief for your position for an extended incident response ☐
18. Collect log sheets and records from other ERT members; provide to Emergency Coordinator and compile
19. Maintain personal log of incident events, actions, messages and decisions; provide to Emergency Coordinator at the conclusion of any incident ☐

POST-EMERGENCY

20. Contribute to incident debrief (phone conference if necessary) ☐
21. Review incident response events; provide recommendations for response improvements or ERP updates ☐

3.4 Health and Safety Vision and Policy

Health & Safety Policy

Santos

Our Health and Safety Vision:

"We all go home from work without injury or illness"

We believe that:

- No business objective will take priority over health and safety.
- All injuries are preventable.
- No task is so important or urgent that it cannot be done safely.
- Without diminishing management's obligations, the responsibility and accountability for health and safety rests with every individual.

At Santos we are committed to conducting our business in a manner that prevents injury or illness to employees, contractors, customers and the public who may be affected by our work activities. We encourage best practice in health and safety management within this wider Santos community.

To achieve this we will:

- Proactively pursue the identification of all hazards and eliminate or, if not possible, manage the risk to as low as reasonably practicable.
- Consult with and promote active participation of employees in the management of their own and others' health and safety.
- Require that companies providing contract services to Santos manage their health and safety in line with this Policy.
- Provide resources to achieve a systematic approach to health and safety management to ensure continuous performance improvement.
- Identify performance measures, set improvement targets, measure and report performance at all levels.
- Comply with or exceed all relevant legislation and standards.
- Develop a culture where all employees and contractors are constantly aware of hazards around them and act accordingly at and away from work.
- Include health and safety performance in the appraisal of employees and contractors and recognise accordingly.

John Ellice-Flint
Managing Director
September 2004

Santos Ltd ABN 80 007 550 923 File No: POLICY P039

APPENDIX 4 PUBLIC LIABILITY INSURANCE - CERTIFICATE OF CURRENCY

(Please note that this Certificate of Currency is valid until 31 March 2006. A new certificate for the subsequent 12 month period will be issued in the last week of March 2006. It is envisaged that all insurance details will remain the same. A copy of the new certificate can be supplied if required)

MARSH

Karen Roberts
Assistant Manager

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1 April 2005

Certificate of Currency

This certificate is issued as a matter of information only and confers no rights upon the holder. It does not amend, extend or alter the coverage afforded by the policy/policies listed. It is provided as a summary only of the cover provided and is current only at the date of issue. For full particulars, reference must be made to the current policy wording.

We confirm having effected **INSURANCE** as follows:-

Insured:	Santos Limited and/or any Parent, Subsidiary, Affiliated, Interrelated, Controlled or managed Company or Joint Venture or Associated Participating Company including Santos USA Corp
Insurers:	Zurich Global Energy
Class of Insurance :	Combined General and Products Liability
Period:	From 31st March 2005 To 31st March 2006 at 4:00pm Local Standard Time
Interest Insured:	Insured's legal liability to third parties for personal injury and/or property damage arising out of or in connection with the business or its products.
Including:	Loss arising from sudden and accidental pollution
Territorial Limits:	Anywhere in the World.
Limit of Liability:	US$15,000,000 each and every occurrence and in the aggregate in respect of products.

Subject to the terms and conditions of the policies.

Yours sincerely

Karen Roberts
Assistant Manager