



ABN 80 007 550 923

BRIDGING DOCUMENT

for

**2007 VIC/P44 OTSN07 3D
MARINE SEISMIC SURVEY**

And

**Otway VIC/RL7 HOT07A
Marine Seismic Survey**

OPERATED BY SANTOS

with

M/V WESTERN TRIDENT

Controlled Copy No. _____

DOCUMENT NO.:	
TITLE:	BRIDGING DOCUMENT FOR 2007 VIC/P44 3D MARINE SEISMIC SURVEY AND OTWAY VIC/RL7 HOT07A MARINE SEISMIC SURVEY OPERATED WITH M/V WESTERN TRIDENT

REVISION BOX					
Revision	Date	Description	Prepared By	Reviewed	Approval
Rev 3	9/05/2007	Inclusion of BHP Billiton survey	ASW	JRH	JRH
Rev 2	27/04/2007	Update Emergency Response contact details	ASW	JRH	JRH
Rev A	23/03/2007	Issue for Regulatory Review	ASW	JRH	JRH
Rev 0	22/03/2007	Issue for Internal Review	ASW	JRH	JRH

RELIANCE NOTICE

This document has been prepared by Santos Operations Geophysics group with input from other internal and external parties as necessary for Santos Exploration Group.

This document is the property of Santos Exploration Group.

DOCUMENT NO.:	
TITLE:	BRIDGING DOCUMENT FOR 2007 VIC/P44 3D MARINE SEISMIC SURVEY AND OTWAY VIC/RL7 HOT07A MARINE SEISMIC SURVEY OPERATED WITH M/V WESTERN TRIDENT

CONTROLLED COPY DISTRIBUTION LIST:

Copy No.	Recipient
001	Original (file)
002	Santos Representative, Adelaide
003	WesternGeco 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 Industry

TABLE OF CONTENTS

ABBREVIATIONS	5
1. PREFACE	6
2. INTRODUCTION.....	7
2.1 Objective	7
2.2 Scope	7
2.3 Methodology.....	7
2.4 Primary Reference Documents	7
3. DESCRIPTION OF OPERATIONS	8
3.1 General	8
3.2 Metocean Conditions	9
3.3 Site	9
3.4 Vessels.....	9
3.5 Special Requirements	10
3.6 Public Liability	10
4. SAFETY MANAGEMENT SYSTEM.....	10
4.1 Policy and Objectives.....	10
4.2 Organisation and Responsibilities.....	11
4.3 Personnel Involvement and Communication.....	11
4.4 Hazard Identification and Risk Management	12
4.5 Objectives, Plans and Performance Standards	12
4.6 Management of Change.....	12
4.7 Safe Operational Procedures.....	12
4.8 Employee Selection, Competency and Training	13
4.9 Emergency Response	13
4.10 Incident Reporting and Investigation.....	14
5. HAZARD ASSESSMENT	14
5.1 Hazard Register	14
APPENDIX 1 PROGRAM LOCATION MAP.....	15
APPENDIX 2 PROJECT ORGANISATION STRUCTURE	16
APPENDIX 3 PROJECT INCIDENT RESPONSE DETAILS.....	17
3.1 Emergency Contact Numbers.....	17
3.2 Santos / Pacific Titan Emergency Response Organisation Chart.....	19
3.3 Roles & Responsibilities	20
3.4 Health and Safety Vision and Policy	26
APPENDIX 4 PUBLIC LIABILITY INSURANCE - CERTIFICATE OF CURRENCY	27

Abbreviations

ALARP	As Low As Is Reasonably Practicable.
AMSA	Australian Maritime Safety Authority
CASA	Civil Aviation Safety Authority.
DPI	Department of Primary Industry
ERP	Emergency Response Plan.
EOC	Emergency Operations Centre
EHS	Environment, Health & Safety
EHSMS	Environment, Health & Safety Management System
ERT	Emergency Response Team
IMP	Incident Management Plan
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. WesternGeco's contribution to the seismic operations submission will be Site Specific QHSE 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 the WesternGeco QHSE Management System and Site Specific QHSE Plan and the Santos Environment, Health & Safety Management System (EHSMS) as detailed in the project specific Environment Plan.

WesternGeco 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 WesternGeco 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 WesternGeco 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 WesternGeco;

- The Safety Management System covering all seismic operations has been defined and is clearly stated; and
- Where components of Santos and WesternGeco 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 WesternGeco 'M/V WESTERN TRIDENT' during the 2007 VIC/P44 3D MSS and VIC/RL7 HOT07A MSS.

WesternGeco Site Specific Management 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 WesternGeco QHSE Management System and WesternGeco Site Specific Management Plan;
- Review of the identified vessel hazards; and
- Identification of Safety Management System responsibilities and interfaces between Santos and WesternGeco.

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;
- WesternGeco QHSE Management System
- WesternGeco Site Specific Management Plan encompassing the WesternGeco "Project QHSE Plan" and the WesternGeco "Crew QHSE Plan for the M/V WESTERN TRIDENT"

3. DESCRIPTION OF OPERATIONS

3.1 General

The work involves the acquisition of up to approximately 810 Square kilometres of full fold 3D seismic data over VIC/P44 and VIC/RL7. The table below details the various surveys to be acquired.

Permit	Permit Operator	Proposed Acquisition (Full Fold Sq Km)	Source Interval (Metres)	Streamer Length (Metres)	Water Depth Range (Metres)
VIC/P44	Santos	660	18.75	5000	40-90
VIC/RL7	BHP	150	18.75	5000	80-140

Acquisition will commence in early May 2007 for an approximate 2 week period before the vessel is released for work with Beach Petroleum. Following completion of the Beach survey in late May / early June 2007, the vessel will return to VIC/P44 to complete the Santos survey. Including estimated standby and downtime, the duration of the Santos work will be approximately 25 days.

Immediately following completion of the Santos VIC/P44 survey, the vessel will acquire the BHP Billiton VIC/RL7 survey, operated by Santos under an agency agreement. Including estimated standby and downtime, the duration of the BHP work will be approximately 8 days.

Mobilisation is expected to take place from the Gippsland. Crew changes for the seismic vessel are currently planned for the 5th May and 9th June via Helicopter from Tooradin, Melbourne and potentially Warnnambool. The M/V WESTERN TRIDENT will tow 8 streamers, 5000m in length at a depth of approximately 7 metres and energy source of just 3147 cu.in. towed at a depth of approximately 8 metres. The operating pressure of the airguns will be maintained at up to 2000 psi.

3.2 Metocean Conditions

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

Permit	Comments
VIC/P44 VIC/P61 VIC/RL7	<ul style="list-style-type: none">No known obstruction or shallows shown on chart.

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 numerous 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 'WESTERN TRIDENT'.

3.3 Site

The proposed seismic survey is situated in Commonwealth Waters in the offshore Otway Basin in western Victoria. The survey is located approximately 14km south of Warrnambool and 17km southeast of Port Faurey. The seismic survey will be conducted in waters generally ranging from 40m to 160m in depth. There are no known naturally occurring shallows or obstruction in the survey area.

Commercial traffic in the form of fishing vessels can be expected in the survey area although given the timing the fishing traffic should be relatively low. The survey area also crosses shipping channels so other vessels are to be expected in the area.

A location map is shown in Appendix 1.

3.4 Vessels

3.4.1 Seismic Vessel – M/V WESTERN TRIDENT

The worksite is the M/V WESTERN TRIDENT that is designed and built for worldwide 3D seismic investigation and exploration. The M/V WESTERN TRIDENT 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 up to 64 persons at any one time during the survey.

The vessel is equipped with a dedicated helideck rated for Sikorsky S92 helicopters. The vessel is also equipped with two workboats and a Man Overboard (Mob) boat.

3.4.2 Other Vessels

A support vessel will be used to accompany the Western Trident to assist in its operation. WesternGeco have contracted the MV OMS PIONEER to fulfil this role.

A scout vessel will be used to assist with removal of fishing equipment in the path of the recording operation. Santos has contracted the KINGFISHER, captained by Gary Edwards.

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 included in 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 supplied in Appendix 4 which provides details of the cover.

4. SAFETY MANAGEMENT SYSTEM

The Safety Management System interfaces on the 'M/V WESTERN TRIDENT' are managed by the vessel master and Santos Onboard Representative. The safety critical systems of safety management are the WesternGeco Site Specific Management Plan (SSMP). This document is a combination of the Crew QHSE Plan for the M/V WESTERN TRIDENT and the Site Specific Project QHSE Plan. Supporting the SSMP are Standards, Procedures, Work Instructions, Manuals of Permitted Operations and Permits to Work which are more specific and detailed. In all these areas, the WesternGeco Quality, Health, Safety and Environment 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).

WesternGeco Safety Policy statement is located in their HSE Manual as well as being posted on the 'WESTERN TRIDENT'.

Santos and WesternGeco 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 WesternGeco personnel is shown on Appendix 2.

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

Communication of information is the responsibility of the line supervisor as shown on the WesternGeco organisation chart. The 'WESTERN TRIDENT' 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.

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

WesternGeco has the lead role to communicate to new personnel their responsibility for safety on the 'WESTERN TRIDENT'.

The 'WESTERN TRIDENT' 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:

WesternGeco

- Hazard Analysis and Risk Control
- Mobilisation and Job Start Meetings;
- Regular LPT and QHSE Meetings;
- Regular Departmental Meetings;
- Toolbox Meetings;

Santos

- Project planning and meetings;
- Hazard reviews;
- Job Start and Operations 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

WesternGeco has a Hazard Analysis and Risk Control (HARC) Standard incorporated into their Project QHSE Plan which makes up part of their safety case. The HARC register has been constructed from WesternGeco crews and is tailored to suit each individual project. The top 10 hazards are detailed in the Project QHSE plan and a register of all hazards has been developed and details can be accessed via the QHSE plan or on the vessel.

4.5 Objectives, Plans and Performance Standards

Santos and WesternGeco 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 WesternGeco 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

- WesternGeco Crew QHSE Plan;
- WesternGeco Project QHSE Plan;
- WesternGeco Emergency Response Plan;
- WesternGeco Manual of Permitted Operations;

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

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

4.8 Employee Selection, Competency and Training

WesternGeco is responsible for training and ensuring all personnel on site are competent to their designated duties and all relevant personnel are trained to their Emergency Response requirements.

Santos is responsible for ensuring the 'WESTERN TRIDENT' Master is familiar with Santos Emergency Response systems.

4.9 Emergency Response

The Emergency Response plans for Santos and WesternGeco have been reviewed

Responses to emergencies on or near the WESTERN TRIDENT will be governed by WesternGeco Emergency Response Plan. There may however be situations where the emergency will require, or could potentially require, assistance beyond the resources of WesternGeco. Should such an incident occur the Santos Incident Management plan will be activated. (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 WESTERN TRIDENT Master and Party Manager.

Once the ERT become involved, it is crucial that communication is concise and both Santos and WesternGeco understand precisely what responsibilities each has. Both organisations may use any onshore resources listed in both the Santos and WesternGeco 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 WesternGeco Incident Investigation and Reporting procedures that are detailed in their QHSE Management System. WesternGeco investigation, reporting and follow-up systems will be used. The investigation team will be made up of WesternGeco 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

A 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.

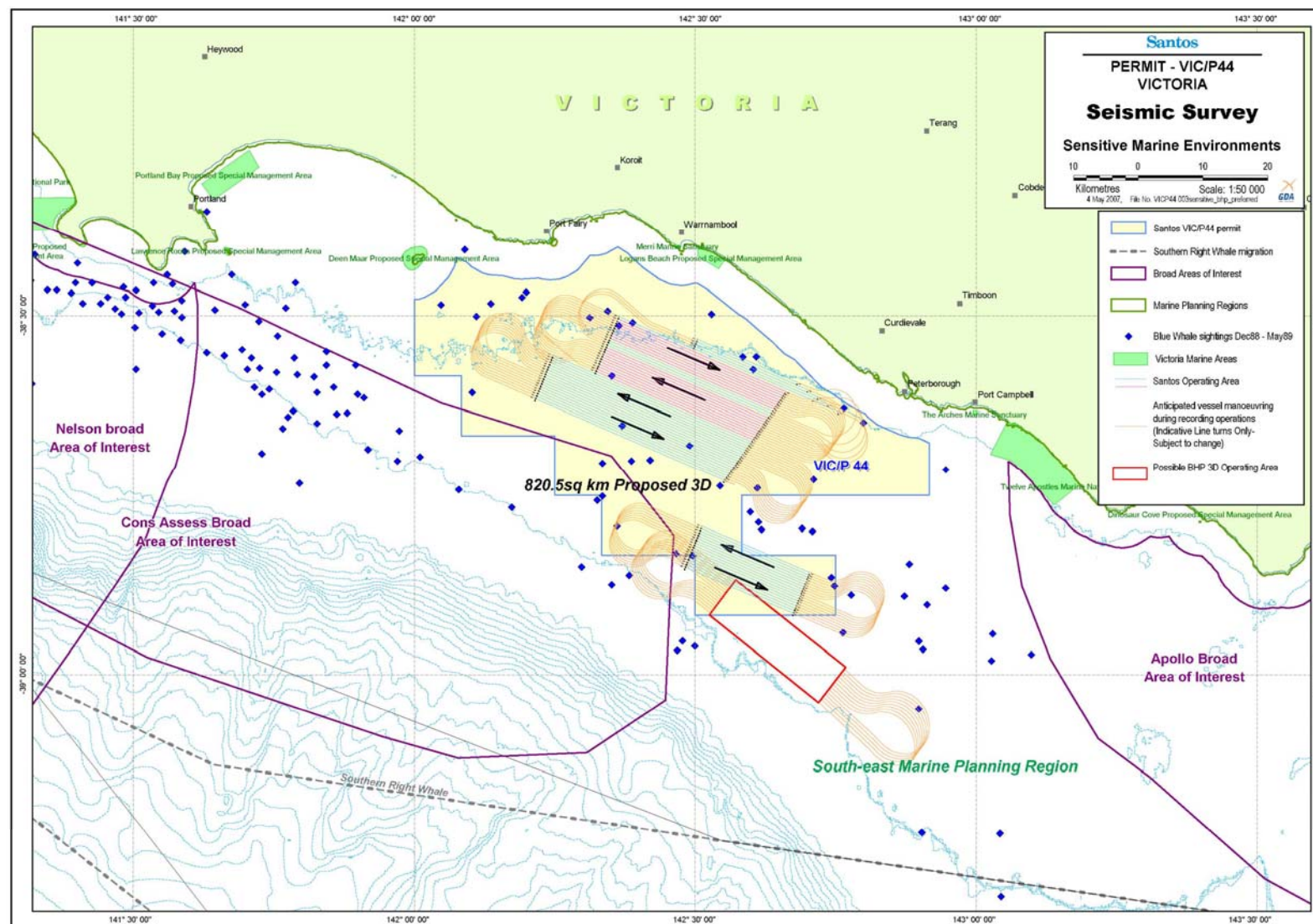
Reassessment will occur if risk factors change significantly during the planned operations.

5.1 Hazard Register

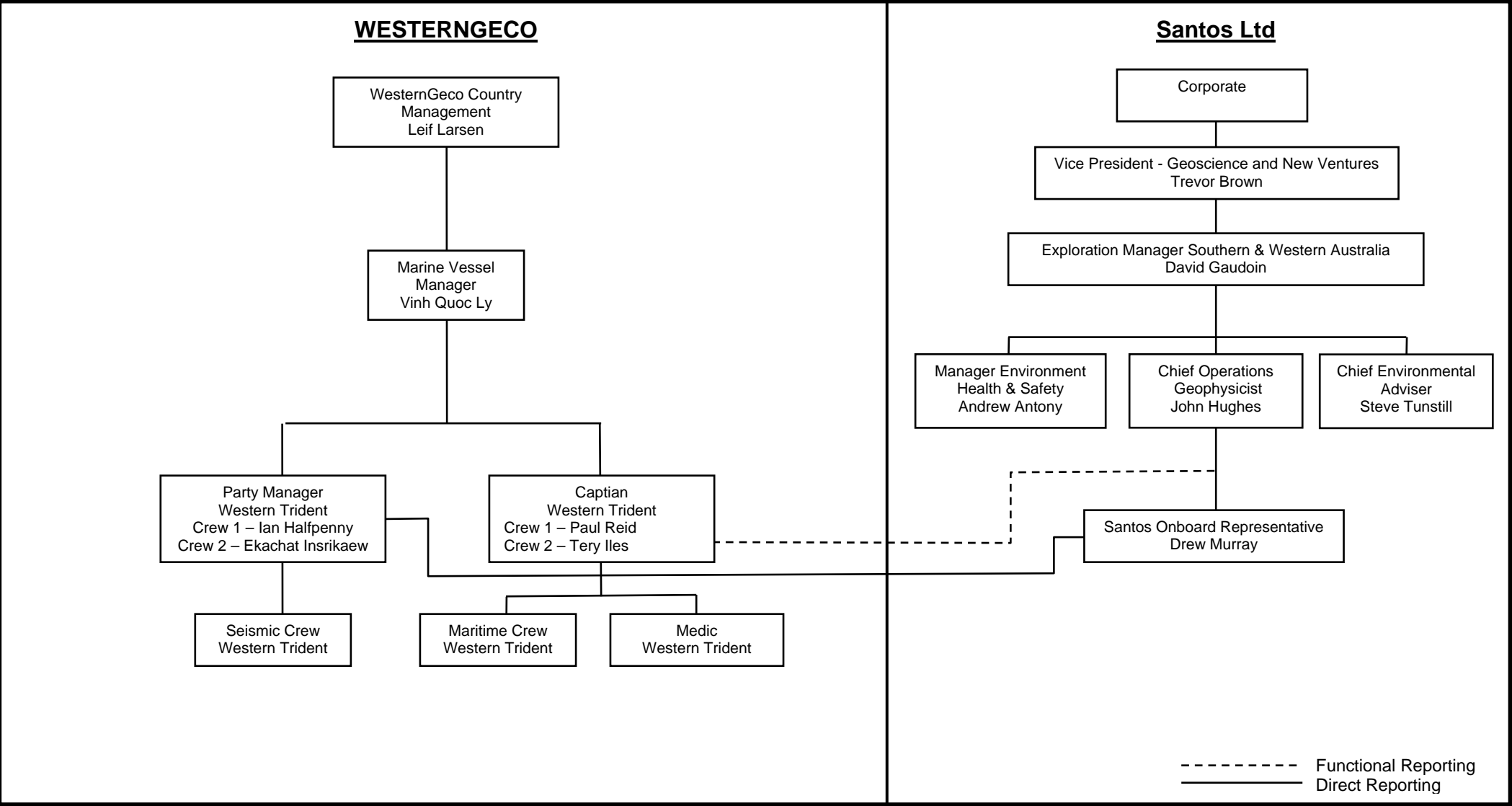
WesternGeco will perform a final assessment of hazards when on site and if any additional hazards or obstructions are identified, then documentation on managing these risks shall be prepared accordingly. However, WesternGeco has a Hazard Register containing all the anticipated hazards for the forthcoming 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 HSEQ 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. Dave Gaudoin	08 8116 5631		0400 034 227	08 8116 5932
Duty Incident Manager				
1. Jon Young	08 8116 7505		0417 085 206	08 8116 5970
2. Roger Kennett	08 8116 7846		0419 180 935	08 8116 7965
3. Nick Lagonik	08 8116 7349		0400 383 020	08 8116 7113
4. Mark McFarlane	08 8116 5269		0438 788 138	08 8116 7113

Santos Emergency Response Team (ERT)	Work	After Hours	Mobile	Fax
John Hughes (Emergency Coordinator)	08 8116 7952	08 8278 6781	0428 786 781	08 8116 7258
Alan Jones (Emergency Controller)	08 8116 7303	08 8357 6212	0427 520 773	08 8116 7258
Stuart Brew (Support Coordinator)	08 8116 7625	08 8278 7515	0412 552 055	08 8116 7258
Andrew White (Information Coordinator)	08 8116 7260	08 8332 2949	0417 086 407	08 8116 7258

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

WESTERNGECO

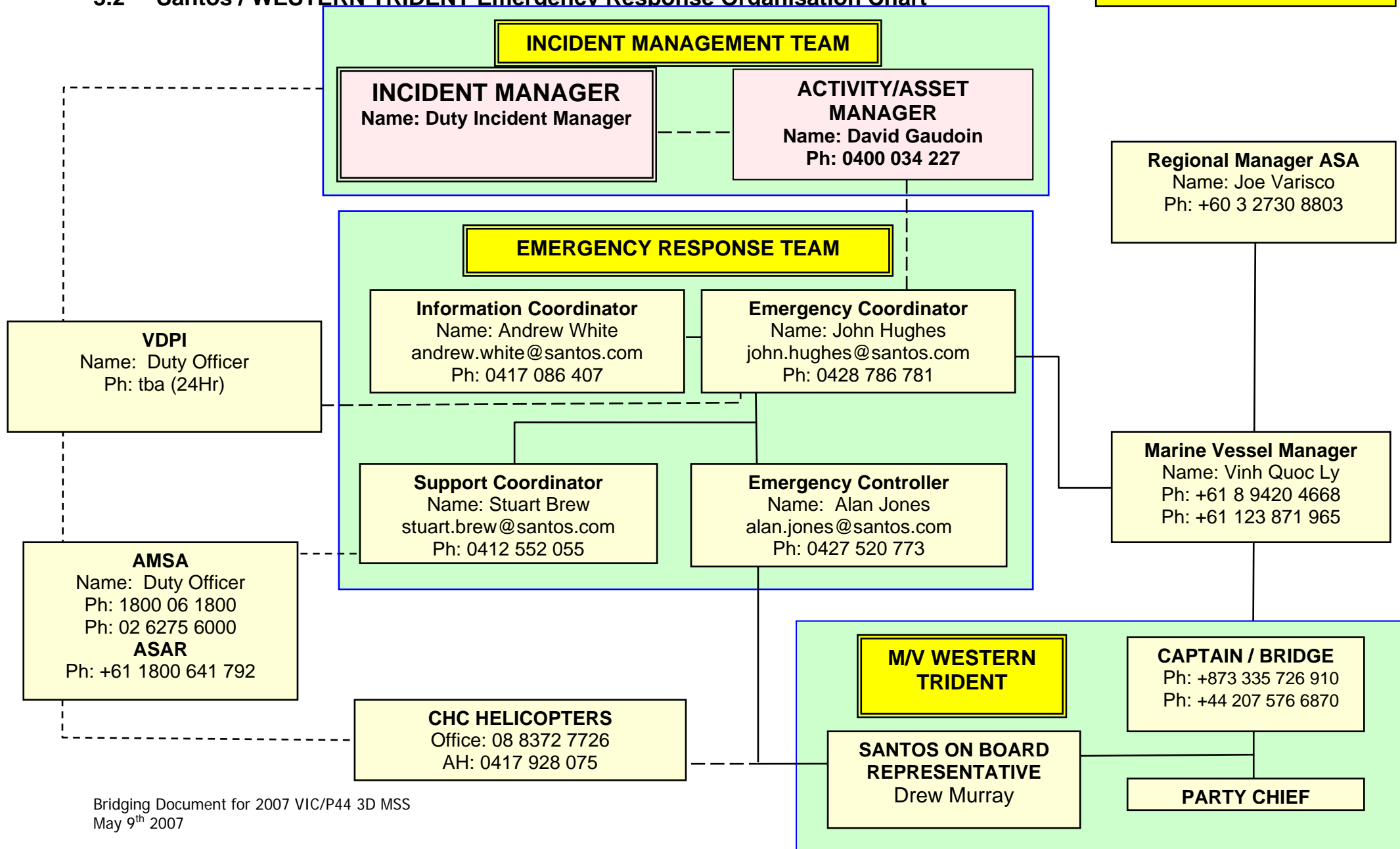
Name	Work	Mobile	email
Marine Department WesternGeco's Contingency Department	Ph: +60 3 2730 8806 Fax: +60 2 2715 6588		
Regional Manager ASA Joe Varisco	Ph: +60 3 2730 8803 Fax: +60 3 2715 5188	+60 12 372 5899	jvarisco@kuala-lumpar.westerngeco.lsb.com
Marine Vessel Manager Vinh Quoc Ly	+61 8 9420 4668	+61 434 601 159	tba
WG General Manager, Australia Leif Larsen	Ph: +61 8 9420 4583 Fax: +61 8 9420 4600	+61 409 379 679	Larsen11@perth.westerngeco.slb.com

M/V WESTERN TRIDENT

M/V WESTERN TRIDENT	Contact Details
Radio Call Sign	3FEO9
Telephone – Bridge (Inmarsat-B)	+873 335 726 910
Telephone – Bridge (V-Sat UK) Ph/Fax	+44 207 576 6870
Telephone – Bridge (V-Sat USA) Ph/Fax	+1 713 296 5370
Party Chief (email)	Party_Chief@trident.vessel.int.slb.com
Captain (email)	captian@trident.vessel.int.slb.com

Onshore

Name	Location	Contact Details
Police	Police Emergency	000
	Melbourne – Police main switchboard	03 9247 6666
	Warrnambool - Police	03 5560 1333
Ambulance	Emergency	000
	Non emergency Transport	13 3009
	Rural Ambulance Victoria	03 5338 5000
Hospitals	St Vincents Hospital, Melbourne	03 9288 2211
	St John of God Hospital	03 5564 0600
	Royal Adelaide Hospital, Adelaide	08 8222 4000
	District and Base Hospital, Warrnambool	03 5563 1666
Medical Advice	International SOS Medical Support Singapore	+65 6338 7800 (24 hrs)
Medevac	CHC Helicopters	Emergency – 08 8372 7726 Emergency – 0417 928 075
Australian Maritime Safety Organisation		08 9430 2100 (Ph) 08 9430 2121 (Fax)
Victorian Department of Primary Industry	Melbourne	Duty Officer tba
Petroleum Emergency Contact		
AusSAR	Canberra	+61 1800 641 792
Maritime Rescue Coordination Centre		02 6230 6811 (Ph) 02 6230 6868 (Fax)



3.3 Roles & Responsibilities

Emergency Management Team

EMERGENCY ROLE PROFILE

- Provides technical, logistics, support and assistance to the vessel and associated response during an emergency
- Manages the wider external requirements and outcomes of the emergency
- Develops the tactical method for the vessel 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 vessel

PRE-EMERGENCY

- 1 Maintain familiarisation with **Santos** and contractors 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 vessel 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 contractors, 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 vessel communication channels and phone lines kept clear ☐
8. If vessel 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 vessel 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 shore based 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 Seismic vessel 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 | <input type="checkbox"/> |
| 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 | <input type="checkbox"/> |
| 24. Consider restricted airspace around incident site; Santos on Board Rep., ERT and Helicopter Management; initiate as appropriate | <input type="checkbox"/> |
| 25. Arrange additional support to staff ERT communications and administration activities; ensure a timed log is kept of all incident activities | <input type="checkbox"/> |
| 26. Ensure technical specialists likely to be required are put on standby early | <input type="checkbox"/> |
| 27. Consider aerial/site photography for complete pictorial record of incident | <input type="checkbox"/> |
| 28. Approve Santos external information releases in conjunction with Incident Manager and Third Party Contractor Management | <input type="checkbox"/> |
| 29. With IMT, assist with the development of an initial media release | <input type="checkbox"/> |
| 30. Consult IMT Legal Adviser if situation requires advice on any contractual provisions which may be contingent to the emergency or the response | <input type="checkbox"/> |
| 31. Consult with IMT and the seismic contractor regarding establishment of Relatives Response | <input type="checkbox"/> |
| 32. For an extended response, ensure a dedicated Relatives Response call line is established | <input type="checkbox"/> |
| 33. Confirm Santos personnel records prior to providing information to callers claiming to be relatives of personnel onboard the vessel | <input type="checkbox"/> |
| 34. Have Santos "Next of Kin" information available to person taking/making calls, ensure phone is manned and personnel are briefed thoroughly | <input type="checkbox"/> |
| 35. Ensure all Relatives Response and Media calls are taken outside of the EOC. | <input type="checkbox"/> |
| 36. Consider having relative(s) of any injured personnel transported to the hospital where any injured have been repatriated | <input type="checkbox"/> |
| 37. Materials and Logistics to organise Evacuation/Medivac flights as required | <input type="checkbox"/> |
| 38. For Fatality, initiate incident investigation in preparation for Police/Coroner's investigation and ensure information requested in Fatality Checklist is recorded | <input type="checkbox"/> |
| 39. Ensure employers of 3 rd Party Contractors onboard advised of incident status; update regularly | <input type="checkbox"/> |
| 40. Ensure incident financial activities are recorded and maintained (charge account numbers etc.) associated to incident purchases | <input type="checkbox"/> |
| 41. Consider relief for your position and other ERT members if extended response | <input type="checkbox"/> |
| 42. Maintain personal log of incident events, actions, messages and decisions; provide to ERT Information Coordinator at the conclusion of any incident | <input type="checkbox"/> |
| <u>POST-EMERGENCY</u> | |
| 43. Chair debrief of key personnel involved in the incident response before standing them down | <input type="checkbox"/> |
| 44. Consider a debrief of key external response agency personnel involved, via tele-conference if necessary | <input type="checkbox"/> |
| 45. Initiate the development of a post emergency action and responsibility plan | <input type="checkbox"/> |
| 46. Review incident response; provide recommendations for improvements or ERP updates | <input type="checkbox"/> |
| 47. Ensure key respondents provide incident reports at the conclusion of any incident/emergency and provide to the Incident Manager. | <input type="checkbox"/> |

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 contractors 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 vessel 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

<u>EMERGENCY ROLE PROFILE</u>	
<ul style="list-style-type: none"> • 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 	
<u>PRE-EMERGENCY</u>	
1. Maintain familiarisation with Santos and contractors ERP's, key emergency respondents and the respective notification and callout requirements	<input type="checkbox"/>
<u>EMERGENCY ACTIONS</u>	
2. Confirm callout if after hours	<input type="checkbox"/>
3. Liaise with Emergency Coordinator for incident briefing and likely requirements	<input type="checkbox"/>
4. Initiate any relevant emergency support calls (Helicopter Contractor Management, Support Vessel Contractor Management, contracted Doctor, Trauma Centre etc.)	<input type="checkbox"/>
5. Make early contact with all local, state, federal, International regulatory authorities, Police and/or Coroner, ensure contacts are logged and liaison maintained	<input type="checkbox"/>
6. Provide OHS&E advice for emergency response activities and work practices	<input type="checkbox"/>
7. Assist with technical assessment and potential extent of the emergency	<input type="checkbox"/>
8. Coordinate all engineering and technical resources and liaise with technical specialists to ensure adequate support is continually available for response effort	<input type="checkbox"/>
9. Advise Emergency Coordinator of technical specialists likely to be required and put them on standby	<input type="checkbox"/>
10. Assist with ensuring procurement of all needed equipment, supplies, specialist and technical support personnel and services are under way	<input type="checkbox"/>
11. Be pro-active in developing technical/engineering strategies; prepare advice on critical issues	<input type="checkbox"/>
12. Ensure all SAR and external response agencies are notified of any change in vessel communications immediately	<input type="checkbox"/>
13. Notify Information Coordinator of results of all contacts made and log all calls and ring backs	<input type="checkbox"/>
14. Provide input into and develop incident safety plan	<input type="checkbox"/>
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	<input type="checkbox"/>
16. Confer with Emergency Coordinator regarding restricted airspace at incident site; advise when in place	<input type="checkbox"/>
17. Maintain liaison with contracted Doctor, Hospital and vessel Medic as required	<input type="checkbox"/>
18. Assist with providing SITREP details to relevant SAR services	<input type="checkbox"/>
19. Confer with contractor regarding Relatives Response, ensure efforts are made to avoid confusion or conflicting information being released to relatives	<input type="checkbox"/>
20. Reconcile casualty reports and arriving evacuees with vessel POB manifests	<input type="checkbox"/>
21. Ensure relevant Proforma's are filled in and transmitted (MEDIVAC REPORT etc.)	<input type="checkbox"/>
22. Do not talk to the Media at any time unless authorised by the Emergency Coordinator,	<input type="checkbox"/>
23. Consider relief for your position for an extended incident response	<input type="checkbox"/>
24. Maintain personal log of incident events, actions, messages and decisions; provide to ERT Information Coordinator at the conclusion of any incident	<input type="checkbox"/>
<u>POST-EMERGENCY</u>	
25. Contribute to incident debrief (phone conference if necessary)	<input type="checkbox"/>
26. At the conclusion of the incident, investigate and prepare full report for Santos Management, provide recommendations for response improvements or ERP updates	<input type="checkbox"/>

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 contractor ERP's, key emergency respondents and the respective notification/callout requirements ☐

EMERGENCY ACTIONS

2. Confirm callout and ETA if after hours ☐
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 shore based 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

MARSH

Karen Roberts
Managing Principal

Marsh Pty Ltd
ABN 86 004 651 512
108 North Terrace
ADELAIDE SA 5000
GPO Box 2637
ADELAIDE SA 5001
Ph 08 8385 3544 Fax 08 8385 3650
karen.p.roberts@marsh.com
www.marsh.com.au

5 April 2007

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 Subsidiary or Joint Venture or Associated participating Company.

Insurers: Zurich Australian Insurance and SR International

Policy Number : LA 44 818A

Class of Insurance : Combined General and Products Liability

Period: From 31st March 2007
To 31st March 2008 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.

Territorial Limits: Anywhere in the World.

Limit of Liability: US\$20,000,000 each and every occurrence and in the aggregate in respect of products

Subject to the terms and conditions of the policy

Yours sincerely



Karen Roberts
Managing Principal

If this communication contains personal information we expect you to treat that information in accordance with the Australian Privacy Act 1988 (Cth) or equivalent. You must advise us if you cannot comply.

 Marsh & McLennan Companies