

# **EIA/RIMA para a Atividade de Produção e Escoamento de Petróleo e Gás Natural do Polo Pré-Sal da Bacia de Santos - Etapa 1**

**EIA - Estudo de Impacto Ambiental**

**Volume 00**

**Revisão 01**

**Nov/2011**



**E&P**







***ANEXO II.2.4-1 - CERTIFICADOS DOS FPSOS BW  
CIDADE DE SÃO VICENTE E DYNAMIC PRODUCER***



FPSO BW Cidade de São Vicente - IAPP

	<b>DET NORSKE VERITAS</b> <b>INTERNATIONAL AIR POLLUTION PREVENTION CERTIFICATE</b>	Certificate no.: 27172 Date of issue: 2010-02-23
	Issued under the provisions of the Protocol of 1997 to amend the International Convention for the Prevention of Pollution from Ships, 1973, as modified of the Protocol of 1978 related thereto, and as amended by resolution MEPC.132(53), (hereinafter referred to as "the Convention") under the authority of the Government of  <p style="text-align: center;"><b>BERMUDA</b></p> <p style="text-align: center;">by Det Norske Veritas AS</p>	
<b>Particulars of Ship</b>		
Name of Ship:	"BW CIDADE DE SAO VICENTE"	
Distinctive Number or Letters:	ZCDS5	
IMO Number:	7380693	
Port of Registry:	HAMILTON	
Gross Tonnage:	72654	
Type of ship:	<input type="checkbox"/> Tanker <input checked="" type="checkbox"/> Ship other than tanker	
THIS IS TO CERTIFY:		
1. That the ship has been surveyed in accordance with regulation 5 of Annex VI of the Convention; and 2. That the survey shows that the equipment, systems, fittings, arrangements and materials fully comply with the applicable requirements of Annex VI of the Convention.		
Remarks/Recommendations:		
This Certificate is valid until <b>2014-04-03</b> subject to surveys in accordance with Regulation 5 of Annex VI of the Convention.		
Completion date of survey on which this Certificate is based: <b>2009-04-03</b>		
Issued at Høvik, Norway on <b>2010-02-23</b>		
		for Det Norske Veritas AS  Alf Roger Skevig Head of Section
This certificate is issued by or on behalf of BERMUDA under the responsibility of the United Kingdom as Flag State under the Convention		
DET NORSKE VERITAS AS, Veritasveien 1, NO-1322 Høvik, Norway, Tel: +47 67 57 99 00, Fax: +47 67 57 99 11, Org.No. NO 945 748 931 MVA www.dnv.com Form No.: IAPP 101a Issue: January 2010 <span style="float: right;">Page 1 of 6</span>		

### FPSO BW Cidade de São Vicente - IAPP

Name of ship: "BW CIDADE DE SAO VICENTE"		Certificate No: 27172
		Date of issue: 2010-02-23
<b>Endorsement for annual and intermediate surveys</b>		
THIS IS TO CERTIFY that, at a survey required by Regulation 5 of Annex VI of the Convention, the ship was found to comply with the relevant provisions of the Convention.		
1st annual survey:	Place: .....	Date: .....
		Signature: .....
Stamp		Surveyor, Det Norske Veritas AS
2nd annual/intermediate <sup>1</sup> survey:	Place: .....	Date: .....
		Signature: .....
Stamp		Surveyor, Det Norske Veritas AS
3rd annual/intermediate <sup>1</sup> survey:	Place: .....	Date: .....
		Signature: .....
Stamp		Surveyor, Det Norske Veritas AS
4th annual survey:	Place: .....	Date: .....
		Signature: .....
Stamp		Surveyor, Det Norske Veritas AS
<b>Annual/intermediate survey in accordance with Regulation 9(8) (c)</b>		
THIS IS TO CERTIFY that, at an annual/intermediate <sup>1</sup> survey in accordance with Regulation 9(8)(c) of Annex VI of the Convention, the ship was found to comply with the relevant provisions of the Convention.		
	Place: .....	Date: .....
		Signature: .....
Stamp		Surveyor, Det Norske Veritas AS
<b>Endorsement to extend the Certificate if valid for less than 5 years where Regulation 9(3) applies</b>		
The ship complies with the relevant provisions of the Convention, and this Certificate shall, in accordance with Regulation 9(3) of Annex VI of the Convention, be accepted as valid until: .....		
	Place: .....	Date: .....
		Signature: .....
Stamp		Surveyor, Det Norske Veritas AS
<small><sup>1</sup> Delete as appropriate.</small>		
<small>DET NORSKE VERITAS AS, Veritasveien 1, NO-1322 Høvik, Norway, Tel.: +47 67 57 99 00, Fax: +47 67 57 99 11, Org.No. NO 945 748 931 MVA www.dnv.com Form No.: IAPP 101a Issue: January 2010 Page 2 of 6</small>		



FPSO BW Cidade de São Vicente - IAPP

Name of ship: "BW CIDADE DE SAO VICENTE"	Certificate No: 27172 Date of issue: 2010-02-23
<p><b>Endorsement where the renewal survey has been completed and article 9(4) applies.</b>                  The ship complies with the relevant provisions of the Convention, and this Certificate shall, in accordance with Regulation 9(4) of Annex VI of the Convention, be accepted as valid until:</p> <p style="text-align: center;">Place: ..... Date: .....</p> <p style="text-align: right;">Signature: .....</p> <p>Stamp ..... Surveyor, Det Norske Veritas AS</p>	
<p><b>Endorsement to extend the validity of the Certificate until reaching the port of survey or for a period of grace where Regulation 9(5) or 9(6) applies.</b>                  This Certificate shall, in accordance with Regulation 9(5)<sup>2</sup> or 9(6)<sup>2</sup> of Annex VI of the Convention, be accepted as valid until:</p> <p style="text-align: center;">Place: ..... Date: .....</p> <p style="text-align: right;">Signature: .....</p> <p>Stamp ..... Surveyor, Det Norske Veritas AS</p>	
<p><b>Endorsement for advancement of anniversary date where Regulation 9(8) applies.</b>                  In accordance with Regulation 9(8) of Annex VI of the Convention, the new anniversary date is:</p> <p style="text-align: center;">Place: ..... Date: .....</p> <p style="text-align: right;">Signature: .....</p> <p>Stamp ..... Surveyor, Det Norske Veritas AS</p>	
<p>In accordance with Regulation 9(8) of Annex VI of the Convention, the new anniversary date is:</p> <p style="text-align: center;">Place: ..... Date: .....</p> <p style="text-align: right;">Signature: .....</p> <p>Stamp ..... Surveyor, Det Norske Veritas AS</p>	
<p><sup>2</sup> Delete as appropriate</p>	
<p>DET NORSKE VERITAS AS, Veritasveien 1, NO-1322 Høvik, Norway, Tel.: +47 67 57 99 00, Fax: +47 67 57 99 11, Org.No. NO 945 748 931 MVA www.dnv.com                  Form No.: IAPP 101a Issue: January 2010 <span style="float: right;">Page 3 of 6</span></p>	

FPSO BW Cidade de São Vicente - IAPP

## DET NORSKE VERITAS

### SUPPLEMENT TO INTERNATIONAL AIR POLLUTION PREVENTION CERTIFICATE

(IAPP CERTIFICATE)

Record no.:  
27172  
Date of issue:  
2010-02-23

**RECORD OF CONSTRUCTION AND EQUIPMENT**  
In respect of the provisions of Annex VI of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto (hereinafter referred to as "the Convention").

This Record shall be permanently attached to the IAPP Certificate. The IAPP Certificate shall be available on board the ship at all times.

The Record shall be at least in English, French or Spanish. If an official language of the issuing country is also used, this shall prevail in case of a dispute or discrepancy.

Entries in boxes shall be made by inserting either a cross (x) for the answers "yes" and "applicable" or a dash (-) for the answers "no" and "not applicable" as appropriate.

Unless otherwise stated, regulations mentioned in this Record refer to regulations of Annex VI of the Convention and resolutions or circulars refer to those adopted by the International Maritime Organization.

**1. Particulars of ship**

1.1	Name of ship	"BW CIDADE DE SAO VICENTE"
1.2	Distinctive number or letters	ZCDS5
1.3	IMO number	7380693
1.4	Port of registry	HAMILTON
1.5	Gross tonnage	72654
1.6	Date on which keel was laid or ship was at similar stage of construction	1975-05-23
1.7	Date of commencement of major engine conversion (if applicable) (regulation 13)	2009-04-03

**2. Control of emissions from ships**

**2.1 Ozone-depleting substances (Regulation 12)**

2.1.1 The following fire extinguishing systems and equipment containing halons may continue in service:

System equipment	Location on board

2.1.2 The following systems and equipment containing CFCs may continue in service:

System equipment	Location on board

2.1.3 The following system containing hydro-chlorofluorocarbons (HCFCs) installed before 1 January 2020 may continue in service:

System equipment	Location on board

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FPSO BW Cidade de São Vicente - IAPP

Name of ship: "BW CIDADE DE SAO VICENTE" Record no.: 27172  
Date of issue: 2010-02-23

**2.2 Nitrogen Oxides (NOx) (Regulation 13)**

2.2.1 The following diesel engines with power output greater than 130 kW<sup>(3)</sup>, and installed on a ship constructed on or after 1 January 2000, comply with the emission standards of Regulation 13(3)(a) in accordance with the NOx Technical Code:

Manufacturer & Model	Serial No.	Use	Power output (kW)	Rated speed (rpm)

2.2.2 The following diesel engines with power output greater than 130 kW<sup>(3)</sup>, and which underwent major conversion per regulation 13(2) on or after 1 January 2000, comply with the emission standards of Regulation 13(3)(a) in accordance with the NOx Technical Code:

Manufacturer & Model	Serial No.	Use	Power output (kW)	Rated speed (rpm)
Caterpillar Model 3406C (0K-3020)	3ER09655	PS Crane	365.5	2100

2.2.3 The following diesel engines with power output greater than 130 kW<sup>(3)</sup>, and installed on a ship constructed on or after 1 January 2000, or with a power output greater than 130 kW and which underwent major conversion per regulation 13(2) on or after 1 January 2000, are fitted with an exhaust gas cleaning system or other equivalent methods in accordance with regulation 13(3), and the NOx Technical Code:

Manufacturer & Model	Serial No.	Use	Power output (kW)	Rated speed (rpm)

2.2.4 The following diesel engines from 2.2.1, 2.2.2 and 2.2.3 above are fitted with NOx emission monitoring and recording devices in accordance with the NOx Technical Code:

Manufacturer & Model	Serial No.	Use	Power output (kW)	Rated speed (rpm)

**2.3 Sulphur Oxides (SO<sub>x</sub>) (Regulation 14)**

2.3.1 When the ship operates within an SO<sub>x</sub> emission control area specified in regulation 14(3), the ship uses:

2.3.1.1 fuel oil with a sulphur content that does not exceed 1,5 % m/m as documented by bunker delivery notes; or

2.3.1.2 an approved exhaust gas cleaning system to reduce SO<sub>x</sub> emissions below 6,0 g SO<sub>x</sub>/kWh; or

2.3.1.3 other approved technology to reduce SO<sub>x</sub> emissions below 6,0 g SO<sub>x</sub>/kWh

**2.4 Volatile organic compounds (Regulation 15)**

2.4.1 The tanker has a vapour collection system installed and approved in accordance with IMO MSC/Circ.585<sup>(4)</sup>:

**2.5 Shipboard Incineration (Regulation 16)**

2.5.1 The ship has an incinerator:


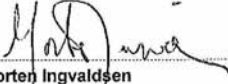
2.5.1.1 which complies with resolution MEPC.76(40) as amended

2.5.1.2 installed before 1 January 2000 which does not comply with resolution MEPC.76(40) as amended

<sup>3</sup> Note that Reg. 13 is not applicable for lifeboat engines, emergency diesel generators and emergency fire pump diesel engines.  
<sup>4</sup> Ships with DNV Class notation VCS-1 or VCS-2 (compliance with USCG CFR 46 Part 39) comply with IMO MSC/Circ.585.

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### FPSO BW Cidade de São Vicente - IAPP

Name of ship: "BW CIDADE DE SAO VICENTE"	Record no.: 27172 Date of issue: 2010-02-23
Remarks / Supplementary information:	
THIS IS TO CERTIFY that this Record is correct in all respects. Issued at Høvik, Norway on 2010-02-23	
	for Det Norske Veritas AS  Morten Ingvaldsen Surveyor
DET NORSKE VERITAS AS, Veritasveien 1, NO-1322 Høvik, Norway, Tel.: +47 67 57 99 00, Fax: +47 67 57 99 11, Org.No. NO 945 748 931 MVA www.dnv.com Form No.: IAPP 101a Issue: January 2010 Page 6 of 6	



FPSO BW Cidade de São Vicente - IOPP



**DET NORSKE VERITAS**  
**INTERNATIONAL OIL POLLUTION**  
**PREVENTION CERTIFICATE**

This Certificate shall be supplemented by Record of Construction and Equipment

Certificate no.: 27172  
 Date of issue: 2010-09-20

Issued under the provisions of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, as amended, (hereinafter referred to as "the Convention") under the authority of the Government of

**BERMUDA**

by Det Norske Veritas AS

**Particulars of Ship**

Name of Ship:	"BW CIDADE DE SAO VICENTE"
Distinctive Number or Letters:	ZCDS5
Port of Registry:	HAMILTON
Gross Tonnage:	72654
Deadweight of ship (metric tons) <sup>1</sup> :	-
IMO Number:	7380693

**Type of ship:**

Oil Tanker

Ship other than an oil tanker with cargo tanks coming under Regulation 2(2) of Annex I of the Convention

Ship other than any of the above

THIS IS TO CERTIFY:

- That the ship has been surveyed in accordance with Regulation 6 of Annex I of the Convention.
- That the survey shows that the structure, equipment, systems, fittings, arrangements and material of the ship and the condition thereof are in all respects satisfactory and that the ship complies with the applicable requirements of Annex I of the Convention.

Remarks/Recommendations:  
**This vessel is a FPSO and has been fitted with IOPP Supplement 530a in line with MEPC.139(53).**

This Certificate is valid until **2014-04-03** <sup>2</sup> subject to surveys in accordance with Regulation 6 of Annex I of the Convention.

Completion date of survey on which this Certificate is based: **2010-04-25**

Issued at **Hovik, Norway** on **2010-09-20**

  
**Jannicke Eide-Fredriksen**  
 Head of Section

This certificate is issued by or on behalf of BERMUDA under the responsibility of the United Kingdom as Flag State under the Convention

<sup>1</sup> For oil tankers  
<sup>2</sup> Insert the date of expiry as specified by the Administration in accordance with Regulation 10.1 of Annex I of the Convention. The day and the month of this date correspond to anniversary date as defined in Regulation 1.27 of Annex I of the Convention, unless amended in accordance with Regulation 10.8 of Annex I of the Convention.

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**FPSO BW Cidade de São Vicente - IOPP**

Name of ship: "BW CIDADE DE SAO VICENTE" Certificate No: 27172  
Date of issue: 2010-09-20

**Endorsement for annual and intermediate surveys**

THIS IS TO CERTIFY that, at a survey required by Regulation 6 of Annex I of the Convention, the ship was found to comply with the relevant provisions of the Convention.

1st annual survey: Place: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Surveyor, Det Norske Veritas AS

Stamp \_\_\_\_\_

2nd annual/intermediate<sup>3</sup> survey: Place: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Surveyor, Det Norske Veritas AS

Stamp \_\_\_\_\_

3rd annual/intermediate<sup>3</sup> survey: Place: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Surveyor, Det Norske Veritas AS

Stamp \_\_\_\_\_

4th annual survey: Place: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Surveyor, Det Norske Veritas AS

Stamp \_\_\_\_\_

**Annual/intermediate survey in accordance with Regulation 10.8.3**

THIS IS TO CERTIFY that, at an annual/intermediate<sup>3</sup> survey in accordance with Regulation 10.8.3 of Annex I of the Convention, the ship was found to comply with the relevant provisions of the Convention.

Place: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Surveyor, Det Norske Veritas AS

Stamp \_\_\_\_\_

**Endorsement to extend the Certificate if valid for less than 5 years where Regulation 10.3 applies**

The ship complies with the relevant provisions of the Convention, and this Certificate shall, in accordance with Regulation 10.3 of Annex I of the Convention, be accepted as valid until: \_\_\_\_\_

Place: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Surveyor, Det Norske Veritas AS

Stamp \_\_\_\_\_

<sup>3</sup> Delete as appropriate.

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FPSO BW Cidade de São Vicente - IOPP


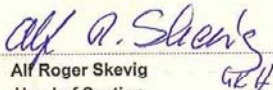
Name of ship: "BW CIDADE DE SAO VICENTE"	Certificate No: 27172 Date of issue: 2010-09-20
<p><b>Endorsement where the renewal survey has been completed and Regulation 10.4 applies.</b>                  The ship complies with the relevant provisions of the Convention, and this Certificate shall, in accordance with Regulation 10.4 of Annex I of the Convention, be accepted as valid until: .....</p> <p style="text-align: center;">Place: ..... Date: .....</p> <p style="text-align: right;">Signature: .....</p> <p>Stamp <span style="float: right;">Surveyor, Det Norske Veritas AS</span></p>	
<p><b>Endorsement to extend the validity of the Certificate until reaching the port of survey or for a period of grace where Regulation 10.5 or 10.6 applies.</b>                  This Certificate shall, in accordance with Regulation 10.5<sup>4</sup> or 10.6<sup>4</sup> of Annex I of the Convention, be accepted as valid until: .....</p> <p style="text-align: center;">Place: ..... Date: .....</p> <p style="text-align: right;">Signature: .....</p> <p>Stamp <span style="float: right;">Surveyor, Det Norske Veritas AS</span></p>	
<p><b>Endorsement for advancement of anniversary date where Regulation 10.8 applies.</b>                  In accordance with Regulation 10.8 of Annex I of the Convention, the new anniversary date is: .....</p> <p style="text-align: center;">Place: ..... Date: .....</p> <p style="text-align: right;">Signature: .....</p> <p>Stamp <span style="float: right;">Surveyor, Det Norske Veritas AS</span></p>	
<p>In accordance with Regulation 10.8 of Annex I of the Convention, the new anniversary date is: .....</p> <p style="text-align: center;">Place: ..... Date: .....</p> <p style="text-align: right;">Signature: .....</p> <p>Stamp <span style="float: right;">Surveyor, Det Norske Veritas AS</span></p>	
<p style="font-size: small;">Delete as appropriate</p>	
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FPSO BW Cidade de São Vicente - ISPP

	<b>DET NORSKE VERITAS</b>		DNV Id No: 27172 Date of issue: 2009-07-09
	<b>INTERNATIONAL SEWAGE POLLUTION PREVENTION CERTIFICATE</b>		
Issued under the provisions of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, as amended, (hereinafter referred to as "the Convention")			
under the authority of the Government of  <b>BERMUDA</b>  by Det Norske Veritas AS			
<b>Particulars of Ship</b>			
Name of Ship:	"BW CIDADE DE SAO VICENTE"		
Distinctive number or letters:	ZCDS5		
Port of registry:	HAMILTON		
Gross tonnage:	72247		
IMO number:	7380693		
Number of persons which the ship is certified to carry:	80		
Date of building contract:	1973-03-27		
Date on which keel was laid or ship was at a similar stage of construction or, where applicable, date on which work for a conversion or an alteration or modification of a major character was commenced:	1995-04-05		
Date of delivery:	1976-02-10		
	<input checked="" type="checkbox"/> Existing ship <input type="checkbox"/> New ship		
Remarks/Recommendations:			
<small>If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.</small>			
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FPSO BW Cidade de São Vicente - ISPP

Name of ship: "BW CIDADE DE SAO VICENTE"	Certificate No: 27172 Date of issue: 2009-07-09
THIS IS TO CERTIFY:	
1 That the ship is equipped with:	
<input checked="" type="checkbox"/> Sewage Treatment Plant* <input type="checkbox"/> Sewage Comminuter* <input type="checkbox"/> Sewage Holding Tank* <input checked="" type="checkbox"/> Pipeline for the discharge to a reception facility*	
1.1 Description of the sewage treatment plant:	
Type of sewage treatment plant <u>Biological Treatment Plant Type 4A Super Trident</u>	
Name of manufacturer <u>Hamworthy KSE Ltd.</u>	
The sewage treatment plant is certified by the Administration to meet the effluent standards as provided for in resolution MEPC.2(VI).	
1.2 Description of comminuter:	
Type of comminuter <u>-</u>	
Name of manufacturer <u>-</u>	
Standard of sewage after disinfection <u>-</u>	
1.3 Description of sewage holding tank equipment:	
Total capacity of the holding tank <u>-</u> m3	
Location <u>-</u>	
1.4 A pipeline for the discharge of sewage to a reception facility, fitted with a standard shore connection.	
2 That the ship has been surveyed in accordance with Regulation 4 of Annex IV of the Convention.	
3 That the survey shows that the structure, equipment, systems, fittings, arrangements and materials of the ship and the condition thereof are in all respects satisfactory and that the ship complies with the applicable requirements of Annex IV of the Convention.	
This Certificate is valid until 2014-04-03. <sup>1</sup>	
subject to surveys in accordance with Regulation 4 of Annex IV of the Convention.	
Completion date of survey on which this Certificate is based: 2009-04-03	
Issued at Høvik, Norway on 2009-07-09	
 1863 6/4/14	for Det Norske Veritas AS  Alf Roger Skevig Head of Section
<small>* Entries in boxes shall be made by inserting either a cross (x) for the answers 'yes' and 'applicable' or a dash (-) for the answers 'no' and 'not applicable' as appropriate</small> <small><sup>1</sup> Insert the date of expiry as specified by the Administration in accordance with regulation 8.1 of Annex IV of the Convention. The day and the month of this date correspond to the anniversary date as defined in Regulation 1.8 of Annex IV of the Convention.</small>	
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### FPSO BW Cidade de São Vicente - ISPP

Name of ship: "BW CIDADE DE SAO VICENTE"		Certificate No: 27172	
		Date of issue: 2009-07-09	
<b>Endorsement where the renewal survey has been completed and regulation 8.4 applies</b>			
The ship complies with the relevant provisions of the Convention, and this Certificate shall, in accordance with Regulation 8.4 of Annex IV of the Convention, be accepted as valid until (yyyy-mm-dd).			
Place: .....		Date: .....	
Signature: .....		Surveyor, Det Norske Veritas AS	
Stamp			
<b>Endorsement to extend the validity of the certificate until reaching the port of survey or for a periode of grace where regulation 8.5 or 8.6 applies</b>			
This Certificate shall, in accordance with Regulation 8.5* or 8.6* of Annex IV of the Convention, be accepted as valid until (yyyy-mm-dd).			
Place: .....		Date: .....	
Signature: .....		Surveyor, Det Norske Veritas AS	
Stamp			
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FPSO BW Cidade de São Vicente - Declaração de Conformidade da Marinha



**MARINHA DO BRASIL**  
**Capitania dos Portos do Rio de Janeiro**

**DECLARAÇÃO DE CONFORMIDADE PARA OPERAÇÃO DE PLATAFORMAS**  
*(STATEMENT OF COMPLIANCE FOR OFFSHORE INSTALLATIONS)*

Nº de inscrição: 381E005810

Certifico que a plataforma **BW CIDADE DE SÃO VICENTE**, bandeira **Bermudas**, nº IMO 7380693,  
*This is to Certify that the offshore installation BW CIDADE DE SÃO VICENTE, flag Bermuda, IMO Number 7380693,*

nº de inscrição **381E005810**, classificado pela **Det Norske Veritas**, foi submetida à  
*Registration Number 381E005810, classified by Det Norske Veritas, was submitted to*

**PERÍCIA TÉCNICA** para efetuar atividades de perfuração, produção e armazenamento de petróleo e/ou gás  
*TECHNICAL INVESTIGATION for drilling, production and storage activities of petroleum and/or natural gas*

em **22/03/2011**, em **Rio de Janeiro**, de acordo com o estabelecido nas Normas da Autoridade Marítima  
*in 03/22/2011, at Rio de Janeiro, in accordance with the requirements established in the Maritime Authority's*

para Operação de Plataformas - **NORMAM 01 - Capítulo 9** e está autorizada a operar até a  
*Regulation for OffShore Installations Operations - NORMAM 01 - Chapter 9 and is authorized to operate until*

data de validade desta Declaração.  
*the validity date of this Statement.*

Esta Declaração, emitida nos Termos do Convênio firmado entre a Diretoria de Portos e Costas - DPC e a  
*This Statement was issued under the terms of the Agreement signed by the Directorate of Ports and Coasts - DPC and the*

Agência Nacional do Petróleo - ANP, constitui documento válido para operação em Águas Jurisdicionais  
Brasileiras - AJB.  
*National Petroleum Agency - ANP and constitutes valid document for operation in Brazilian Jurisdictional Waters - AJB.*

Emitido na Capitania dos Portos do Rio de Janeiro, em 17/06/2011.  
*Issued at Capitania dos Portos do Rio de Janeiro, in 06/17/2011.*

Válido até 21/03/2012.  
*Valid until 03/21/2012.*

  
**Fabio Rios Queiroz**  
Capitão-de-Corveta  
Chefe do Departamento de Segurança do Tráfego Aqua



FPSO *Dynamic Producer* - IAPP



**DET NORSKE VERITAS**

**INTERNATIONAL AIR POLLUTION  
PREVENTION CERTIFICATE**

Certificate no.:  
14704  
Date of issue:  
2010-10-05

Issued under the provisions of the Protocol of 1997 as amended by resolution MEPC.176(58) in 2008, to amend the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 related thereto (hereinafter referred to as "the Convention") under the authority of the Government of

**THE REPUBLIC OF LIBERIA**

by Det Norske Veritas AS

**Particulars of Ship**

Name of Ship:	"DYNAMIC PRODUCER"
Distinctive Number or Letters:	A8NR3
Port of Registry:	MONROVIA
Gross Tonnage:	73641
IMO Number:	8500616

Type of ship:  Tanker  
 Ship other than tanker

**THIS IS TO CERTIFY:**

1. That the ship has been surveyed in accordance with regulation 5 of Annex VI of the Convention; and
2. That the survey shows that the equipment, systems, fittings, arrangements and materials fully comply with the applicable requirements of Annex VI of the Convention.

Remarks/Recommendations:

This Certificate is valid until **2015-08-01** subject to surveys in accordance with Regulation 5 of Annex VI of the Convention.


Completion date of survey on which this Certificate is based: **2010-08-01**

Issued at **Høvik, Norway** on **2010-10-05**



for Det Norske Veritas AS  
**Jannicke Eide-Fredriksen**  
Head of Section

**FPSO Dynamic Producer - IOPP**



**DET NORSKE VERITAS**

INTERIM

**INTERNATIONAL OIL POLLUTION PREVENTION CERTIFICATE**

This Certificate shall be supplemented by Record of Construction and Equipment

Certificate no.: 14704  
Date of issue: 2011-10-14

Issued under the provisions of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, as amended, (hereinafter referred to as "the Convention") under the authority of the Government of

**THE REPUBLIC OF LIBERIA**

by Det Norske Veritas AS

**Particulars of Ship**

Name of Ship:	"DYNAMIC PRODUCER"
Distinctive Number or Letters:	A8NR3
Port of Registry:	MONROVIA
Gross Tonnage:	73641
Deadweight of ship (metric tons) <sup>1</sup> :	-
IMO Number:	8500616

**Type of ship:**

Oil Tanker

Ship other than an oil tanker with cargo tanks coming under Regulation 2(2) of Annex I of the Convention

Ship other than any of the above

**THIS IS TO CERTIFY:**

1. That the ship has been surveyed in accordance with Regulation 6 of Annex I of the Convention.
2. That the survey shows that the structure, equipment, systems, fittings, arrangements and material of the ship and the condition thereof are in all respects satisfactory and that the ship complies with the applicable requirements of Annex I of the Convention.

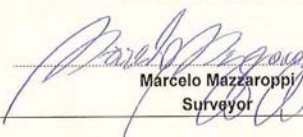
Remarks/Recommendations:  
-

This Certificate is valid until 2012-03-14<sup>2</sup> subject to surveys in accordance with Regulation 6 of Annex I of the Convention.


Completion date of survey on which this Certificate is based: 2010-08-01

Issued at Rio de Janeiro, Brazil on 2011-10-14

for Det Norske Veritas AS



**Marcelo Mazzaroppi**  
Surveyor




<sup>1</sup> For oil tankers

<sup>2</sup> Insert the date of expiry as specified by the Administration in accordance with Regulation 10.1 of Annex I of the Convention. The day and the month of this date correspond to anniversary date as defined in Regulation 1.27 of Annex I of the Convention, unless amended in accordance with Regulation 10.8 of Annex I of the Convention.

DET NORSKE VERITAS AS, Veritasveien 1, NO-1322 Høvik, Norway, Tel.: +47 67 57 99 00, Fax: +47 67 57 99 11, Org.No. NO 945 748 931 MVA www.dnv.com  
Form No.: IOPP 502a Issue: January 2010 Page 1 of 1

FPSO *Dynamic Producer* - ISPP



## DET NORSKE VERITAS

### INTERNATIONAL SEWAGE POLLUTION PREVENTION CERTIFICATE

DNV Id No:  
14704  
Date of issue:  
2010-10-05

Issued under the provisions of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, as amended, (hereinafter referred to as "the Convention")

under the authority of the Government of

## THE REPUBLIC OF LIBERIA

by Det Norske Veritas AS

**Particulars of Ship**

Name of Ship:	"DYNAMIC PRODUCER"
Distinctive Number or Letters:	A8NR3
Port of Registry:	MONROVIA
Gross Tonnage:	73641
IMO Number:	8500616
Number of persons which the ship is certified to carry:	40
Date of building contract:	-
Date on which keel was laid or ship was at a similar stage of construction or, where applicable, date on which work for a conversion or an alteration or modification of a major character was commenced:	1985-10-15
Date of delivery:	1987-01-20

Existing ship

New ship

Remarks/Recommendations:

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

FPSO Dynamic Producer - ISPP

Name of ship: "DYNAMIC PRODUCER" Certificate No: 14704  
Date of issue: 2010-10-05

THIS IS TO CERTIFY:

1 That the ship is equipped with:

<input checked="" type="checkbox"/>	Sewage Treatment Plant*
<input type="checkbox"/>	Sewage Comminuter*
<input type="checkbox"/>	Sewage Holding Tank*
<input checked="" type="checkbox"/>	Pipeline for the discharge to a reception facility*

1.1 Description of the sewage treatment plant:

Type of sewage treatment plant ST4A - Super Trident / ST13 Super Trident 2P, 2C

Name of manufacturer Hamworthy Engineering Ltd.

The sewage treatment plant is certified by the Administration to meet the effluent standards as provided for in resolution MEPC.2(VI).

1.2 Description of comminuter:

Type of comminuter -

Name of manufacturer -

Standard of sewage after disinfection -

1.3 Description of sewage holding tank equipment:

Total capacity of the holding tank - m3

Location -

1.4 A pipeline for the discharge of sewage to a reception facility, fitted with a standard shore connection.

2 That the ship has been surveyed in accordance with Regulation 4 of Annex IV of the Convention.


3 That the survey shows that the structure, equipment, systems, fittings, arrangements and materials of the ship and the condition thereof are in all respects satisfactory and that the ship complies with the applicable requirements of Annex IV of the Convention.

This Certificate is valid until **2015-08-01**.<sup>1</sup>

subject to surveys in accordance with Regulation 4 of Annex IV of the Convention.

Completion date of survey on which this Certificate is based: **2010-08-01**

Issued at **Høvik, Norway** on **2010-10-05**



for Det Norske Veritas AS

*Jannicke Eide-Fredriksen*


**Jannicke Eide-Fredriksen**

Head of Section

\* Entries in boxes shall be made by inserting either a cross (x) for the answers 'yes' and 'applicable' or a dash (-) for the answers 'no' and 'not applicable' as appropriate  
1 Insert the date of expiry as specified by the Administration in accordance with regulation 8.1 of Annex IV of the Convention. The day and the month of this



**FPSO Dynamic Producer - Declaração de Conformidade da Marinha**



**MARINHA DO BRASIL**  
**Capitania dos Portos do Rio de Janeiro**

**DECLARAÇÃO PROVISÓRIA PARA OPERAÇÃO DE PLATAFORMAS**  
*(INTERIN STATEMENT FOR OFFSHORE INSTALLATIONS)*

Nº de inscrição: 381E007057

Certifico que a plataforma **DYNAMIC PRODUCER**, bandeira Libéria, nº IMO 8500616,  
*This is to Certify that the offshore installation DYNAMIC PRODUCER, flag Liberia, IMO Number 8500616,*

nº de inscrição **381E007057**, classificado pela Det Norske Veritas, foi submetida à  
*Registration Number 381E007057, classified by Det Norske Veritas, was submitted to*

**PERÍCIA TÉCNICA** para efetuar atividades de perfuração, produção e armazenamento de petróleo c/ou gás  
*TECHNICAL INVESTIGATION for drilling, production and storage activities of petroleum and/ or natural gas*

em **26/09/2011**, em **Bacia de Santos**, de acordo com o estabelecido nas Normas da Autoridade Marítima  
*in 09/26/2011, at Bacia de Santos, in accordance with the requirements established in the Maritime Authority's*

para Operação de Plataformas - **NORMAM 01** - Capítulo 9 e está autorizada a operar até a  
*Regulation for Offshore Installation Operation - NORMAM 01 - Chapter 9 and is authorized to operate until*


data de validade desta Declaração, condicionada ao cumprimento das exigências do Relatório de Perícia em  
*anexo.*  
*the validity date of this Statement conditioned to compliance with the outstanding requirements noted in the attached Investigation Report.*

Esta Declaração, emitida nos Termos do Convênio firmado entre a Diretoria de Portos e Costas - DPC e a  
*This Statement was issued under the terms of the Agreement signed by the Directorate of Ports and Coasts - DPC and the*

Agência Nacional do Petróleo - ANP, constitui documento válido para operação em Águas Jurisdicionais  
Brasileiras - AJB.  
*National Petroleum Agency - ANP and constitutes valid document for operation in Brazilian Jurisdictional Waters - AJB.*

Emitido na **Capitania dos Portos do Rio de Janeiro**, em **27/09/2011**.  
*Issued at Capitania dos Portos do Rio de Janeiro, in 09/27/2011.*

Válido até **26/12/2011**.  
*Valid until 12/26/2011.*



\_\_\_\_\_  
**Walter Eduardo Bombarda**  
Capitão-de-Mar-e-Guerra  
Capitão dos Portos