Newhaven / Transmanch incidents 2001 - 2005

| EWHAVI | EN / TF | SANSMAN | NEWHAVEN / TRANSMANCH INCIDENTS | <u>2001 - 2005</u> | | | | | |
|------------------------------|------------------------------|-------------------------------------|--|------------------------------|-------------------------|-------------|------------|-------------------------------|------------------|
| Date | Time | Name | Event | MAIB Ref | HOT at time of incident | Time of HW | Time of LW | State Of Tide | Direction and Wi |
| | | | | | | | | | Speed in Knots |
| 13/05/2001 7: | 10:00 PM | 7:10:00 PM Sardinia Vera | Grounding | Not reported to MAIB | 2.50m | 2:42:00 PM | 9:01:00 PM | Low / Flood | SW 14/16 |
| | | | | | | | | 4 days after springs(43%) | |
| 01/02/2002 8:5 | 52:00 AM | 8:52:00 AM Sardinia Vera | Vessel grounded on entering | Full Investigation 0162/2002 | 1.33m | 1:28:00 PM | 7:36:00 AM | Low / Flood | SSE 25/32 |
| | | | CIAILIE III III MII IUS (TAIIEU (O III ANG TUTI) | | | | | z days alter spilligs (11370) | |
| 21/03/2002 9:46:00 AM Dieppe | 46:00 AM | | Grounding | Not reported to MAIB | 1.50m | 3:06:00 PM | 9:15:00 AM | Low / Flood | SW 9/13 |
| | | i | | | | | | 5 days after springs (36%) | |
| 25/04/2002 8:5 | 8:50:00 PM | Dieppe | Vessel collided with 'cut-out' marker piles | Not reported to MAIB | 6.25m | 10:03:00 PM | 3:55:00 PM | (1000) | SW 8/10 |
| | | | and east Pier knuckle causing material damage. | | | | | 4 days after springs (90%) | |
| | | | | | | | | | |
| 22/10/2002 8:4 | 8:42:00 AM Dieppe | Dieppe | Vessel arounded in strong winds while exiting | Admin Enguiry 1511/2002 | 2.59m | 11:34:00 AM | 5:37:00 AM | Low / Flood | SW 28/47 |
| | | | | | | | | 1 day before springs (80%) | |
| | | | | | | | | | |
| 20/11/2002 4:0 | 08:00 AM | 4:08:00 AM Sardinia Vera | Grounding | Preliminary Examination | 1.42m | 10:49:00 PM | 5:09:00 AM | Low - Flood | SE 13/14 |
| | | | | | | | | 2 days before springs (73%) | |
| 27/05/2003 6:4 | 45:00 PM | 6:45:00 PM Sardinia Vera | Grounding west of channel in fog | Not reported to MAIB | 4.30m | 9:09:00 PM | 3:01:00 PM | Flood | WSW 4/10 |
| | 1 | | | | | | | 6 days before springs (30%) | |
| 04/06/2003 4:3 | 4:35:00 PM Dieppe | Dieppe | Vessel suffered machinery failure and tugs | Admin Enquiry 0719/2003 | 3.20m | 1:26:00 PM | 7:50:00 PM | High / Ebb | SE 1/10 |
| | | | required to prevent grounding. | | | | | 2 days after springs (57%) | |
| 14/11/2003 9:3 | 9:35:00 PM Dienne | Dienne | Collision with East Oliav | Not reported to MAIB | 2 00m | 1.53.00 AM | 8-05-00 PM | Flood | SW 33/40 |
| | | | | | | | | 3 days after springs (43%) | |
| 27/11/2003 9:0 | 9:00:00 PM Dieppe | Dieppe | Vessel grounded while approaching harbour. | Admin Enquiry 1746/2003 | 2.30m | 1:39:00 AM | 7:38:00 PM | High / Flood | WSW 1/10 |
| | | | | | | | | 2 days after springs (93%) | |
| 8/2004 6:0 | 08:00 AM | nd | Collision between vessels. | Not reported to MAIB | 1.45m | 12:35:00 AM | 7:05:00 AM | Low / Ebb | 25 |
| | | Uphusen | | | | | | 1 day after springs (83%) | |
| 8/2004 6: | 31/08/2004 6:10:00 AM Dieppe | Dieppe | Vessel grounded in approach channel when | Full Investigation 1224/2004 | 1.10m | 12:00:00 PM | 5:49:00 AM | Low / Ebb | WNW 11/27 |
| | | | helmsman put wheel over the wrong way. | | | | | 1 day before springs (106%) | |
| 1/2005 7:4 | 46:00 PM | 11/01/2005 7:46:00 PM Sardinia Vera | Vessel grounded in main channel as a result | Full Investigation 0039/2005 | 1.78m | 11:59:00 PM | 5:54:00 PM | Low / Flood | SW 28/47 |
| | | | of channel silting. | | | | | 1 day before springs (97%) | |
| 05/12/2005 | 06:52:00 Dieppe | | Vessel grounded in main channel as a result | Full Investigation 1988/2005 | 1.1m | 00:58:00 | 07:22:00 | Low / Ebb | MSW 6 |
| | | | | 0 | | | | 2 days after springs (87%) | |
| | | | | | | | | | |

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|---|---|---|---|---|---|
| А | п | П | е | X | В |

Extracts from MAIB report on the grounding of Sardinia Vera

SYNOPSIS



Narrative

At 1946 UTC on 11 January 2005, the Italian registered ro-ro passenger ferry *Sardinia Vera* ran aground in the approach channel to the port of Newhaven on the south coast of England. The position of the grounding was in the charted deep water channel about 20 metres to starboard of the centreline, a position where the master should have been able to expect sufficient depth of water to navigate safely. The vessel re-floated at 2131 UTC with the rising tide and proceeded to sea stern first, where safety checks were completed before re-entering harbour to berth

safely at 2223 UTC. There were no injuries or pollution, and the vessel did not sustain any damage.

The grounding on 11 January brought to 13 the number of reportable accidents involving the two Transmanche Ferries vessels in the port of Newhaven in less than 4 years. Ten of the accidents and incidents were groundings or near groundings, and three were collisions and contacts involving the other ferry, *Dieppe*. As a consequence, MAIB took the opportunity to probe more deeply the management of safety at Newhaven as it pertained to the Newhaven-Dieppe ferry operation.

Analysis

Newhaven channel is prone to heavy silting. On 11 January 2005, bad weather over the preceding week had caused a significant increase in the rate of silting, especially on the eastern side of the channel. The harbourmaster had been unable to carry out either the routine monthly, or post bad weather hydrographic surveys due to defective surveying equipment, and consequently accurate depths in the channel were not known. No control measures were implemented to mitigate the risk of unknown depth, save that the master attempted to navigate in what he assessed to be the deeper side of the channel. In this, he was hampered by a lack of suitable fixed navigation aids at Newhaven.

The MAIB had only been aware of five of the earlier groundings, investigating one fully and two to Preliminary Examination level. However, most of the other groundings appeared to have had similar causal factors. The MAIB had not been aware of the collisions and contact accidents involving *Dieppe*, but from data collected, the vessel's high windage and vulnerability to strong crosswinds in the approach channel appear to have been significant contributory factors.

Despite having been accredited with implementing the Port Marine Safety Code, the investigation found that Newhaven Ports and Properties (NPP) was apparently unable or unwilling to ensure an adequate level of safety was maintained, as it pertained to the Transmanche Ferry operation in the port. Specifically, the board of NPP appeared not to have assimilated its statutory responsibility for safety of navigation in the port,

and within the management structure the process for conducting risk assessments and implementing risk control measures was largely ineffective. Further, there was no evidence of an effective dialogue between Transmanche Ferries, the ship managers, and NPP, to assess the risks associated with operating a scheduled service of large ferries from the port. As a consequence, safe operating criteria had been defined piecemeal over the years, often following accidents and incidents.

A proper assessment of the risks involved in operating *Sardinia Vera* and *Dieppe* from Newhaven, before the vessels commenced operations, would have identified, and therefore possibly prevented, many issues that have emerged in accidents and incidents in the last 4 years. In addition, proper adherence to the tenets of the port marine safety code would have ensured that post incident analysis was effective, and that the necessary lessons were identified. Finally, an improved safety culture would have ensured that the lessons identified were acted upon effectively to prevent recurrence.

Of specific concern, is that the suitability of *Dieppe* to safely operate a scheduled service out of Newhaven is questionable.

Recommendations

Newhaven Port and Properties, Transmanche Ferries, and V Ships Leisure have been recommended to conduct a comprehensive joint risk assessment to assess the suitability of vessels present and future operating in and out of the port on a scheduled programme, and to formulate robust minimum operating criteria for the individual vessels involved.

Maritime and Coastguard Agency has been recommended to assist the operators, where appropriate, to determine that the planned two new build ferries for this route are suitable to be safely employed on a scheduled service into the port of Newhaven.

Newhaven Port and Properties has been recommended to improve the level of maritime safety within the port by fully implementing the requirements of the port marine safety code.

Department for Transport has been recommended to review the provision of powers necessary for the Maritime Coastguard Agency to effectively monitor implementation of the port marine safety code and provide direction, where necessary, to ensure necessary levels of safety are maintained.

SECTION 3 - CONCLUSIONS

3.1 SAFETY ISSUES

The following safety issues have been identified by the investigation. They are not listed in any order of priority:

Grounding:

- Beyond the first annual review of the risk assessments in January 2003, there is no evidence that the assessments were formally reviewed following any of the subsequent grounding incidents. [2.4.1]
- It took 12 months from the first MAIB recommendation for NPP to procure and make operational the survey equipment, during which time a further grounding and one near grounding occurred. [2.4.2]
- Due to having only one set of surveying equipment and a single surveying launch, both of which were frequently defective, the surveying regime identified in NPP's risk assessment was ineffective, resulting in significant gaps between surveys. [2.4.2]
- The importance of the surveying regime was identified in NPP's risk assessment yet, despite 9 ferry groundings in less than 4 years, NPP did not take steps to make the surveying regime effective. [2.4.2]
- The lack of fixed navigation aids made it difficult for vessels to monitor, and so adjust, their turn into the Newhaven approach channel [2.4.6], and to navigate accurately within it [2.4.5]. Improving the fixed aids to navigation would likely, therefore, improve the safety of the approach to Newhaven. [2.4.7]
- Once it was clear the channel depth was unknown, additional control measures should have been applied to the Transmanche Ferries' vessels until either the charted depth was restored by dredging, or the actual depth established and promulgated by surveying and charting. [2.4.3]
- Frequent dredging remains the most effective way of ensuring that a safe navigable channel is maintained in Newhaven and that the ferries are able to keep to schedule. The current dredging policy, therefore, is difficult to justify from a risk-based approach, and appears contrary to the philosophy and the requirements of the PMSC. [2.4.8]

Operation of *Dieppe*:

- No risk assessment was conducted before *Dieppe* began operations from Newhaven. [2.5.1]
- That the turning basin was not made available to *Dieppe*, has avoidably increased the risk to the vessel when departing Newhaven. [2.5.1, 2.5.3]

- Transmanche Ferries has not consulted NPP over the size, power, propulsion or operating patterns of the new vessels; nor has any risk assessment of their operations been conducted by the port. [2.5.4]
- The harbour tug appears inadequate to support *Dieppe*'s current pattern of operation. [2.6]
- The suitability of *Dieppe* to safely operate a scheduled programme from the port of Newhaven is questionable. [2.5.3]

Port management:

- The management structure does not allow for a source of independent safety advice to the board of NPP, which is therefore deprived of a source of information crucial to the effective discharge of their statutory duties. [2.7.1]
- The board of NPP has taken insufficient steps to implement a safety regime sufficient for the safe operation of the current scheduled ferry service. [2.7.1]
- Had the MCA been able to monitor more closely the application and implementation of the PMSC at Newhaven, many safety shortfalls could have been identified early, and appropriate rectification measures introduced. [2.7.2]

Risk assessment and management:

- That the risk assessment was not updated annually or after each incident, nor amended to show the further control measures discussed and approved by the pilotage committee, implies that the risk assessment process was not adequately understood or applied at Newhaven. [2.7.3]
- The pilotage committee had limited effectiveness as a safety forum. [2.7.4]

Previous incidents:

- The ship managers have not questioned the port's procedures for maintaining a safe navigable channel for their vessel, and have apparently accepted that the five groundings were a necessary consequence of the vessel's operating pattern. [2.8.1]
- Two ferries operating a regular service to a UK port have failed to report six accidents to MAIB as required by the Merchant Shipping (Accident Reporting and Investigation) Regulations 1999. [2.8.2]

VDR manufacturers:

• The VDR alarm system did not alert the operator to the system's failure to record radar data. [2.4]

SECTION 4 - ACTION TAKEN

4.1 DREDGING

Subsequent to the grounding on 11 January 2005, NPP awarded a contract to Westminster Dredging for dredging the main approach channel and the inner harbour. The operation was undertaken in March 2005 and took 2 weeks to complete. A survey undertaken by the contractor on completion of the dredging operation, to confirm the depth of the approach channel, showed that the area on the eastern side, which is particularly prone to heavy silting, had a depth slightly less than the 6.0 metres requested. The remainder of the channel had been increased to a minimum of 6.0 metres throughout.

4.2 REPORTING OF ACCIDENTS

The chief inspector has written to NPP and to the owners of both ferries informing them of the requirement under the Merchant Shipping (Accident Reporting and Investigation) Regulations 2005 for them to report all accidents to the MAIB.

4.3 INVESTIGATION BY BEAMer

The Bureau d'enquêtes sur les évènements de mer (BEAMer), the French counterpart to the MAIB, has been conducting a parallel investigation into three other accidents involving *Dieppe*. In accordance with the IMO Code, BEAMer and MAIB have kept in close touch during their investigations. BEAMer intends to publish its report later in the autumn; however it has been consulted on the findings of this report, and fully supports the MAIB recommendations at Section 5, which are consistent with its own emerging recommendations.

SECTION 5 - RECOMMENDATIONS

Newhaven Port and Properties, Transmanche Ferries, V Ships Leisure and D'Orbigny Ship Management are recommended to:

2005/193 Conduct a joint risk assessment to assess the suitability of all Transmanche Ferries' vessels to operate from the port on a scheduled programme. Part of the risk assessment should be to formulate robust minimum operating criteria for individual vessels, with specific consideration given to wind and depth limitations. The operating criteria should take into consideration the effect of weather conditions on the channel and the change in operating schedule and under keel clearance that will be required.

The Maritime and Coastguard Agency is recommended to:

Assist the operators where appropriate, to determine that the planned two new build ferries are suitable to be safely employed on a scheduled service into the port of Newhaven.

Newhaven Port and Properties is recommended to:

2005/195 Improve the level of maritime safety within the port of Newhaven by fully implementing the requirements of the port marine safety code. Such improvements should, as a minimum:

- Generate a source of independent advice to the board on the effectiveness of the port's safety management system.
- Ensure the training requirement for staff is identified and the necessary training achieved.
- Ensure the safety management system is effective, and empower the port manager⁴ to implement such safety measures as he considers necessary to ensure that safety of navigation at Newhaven is maintained.

⁴ This does not countermand the harbourmaster's operational responsibilities outlined in the PMSC paragraph 1.5.14.

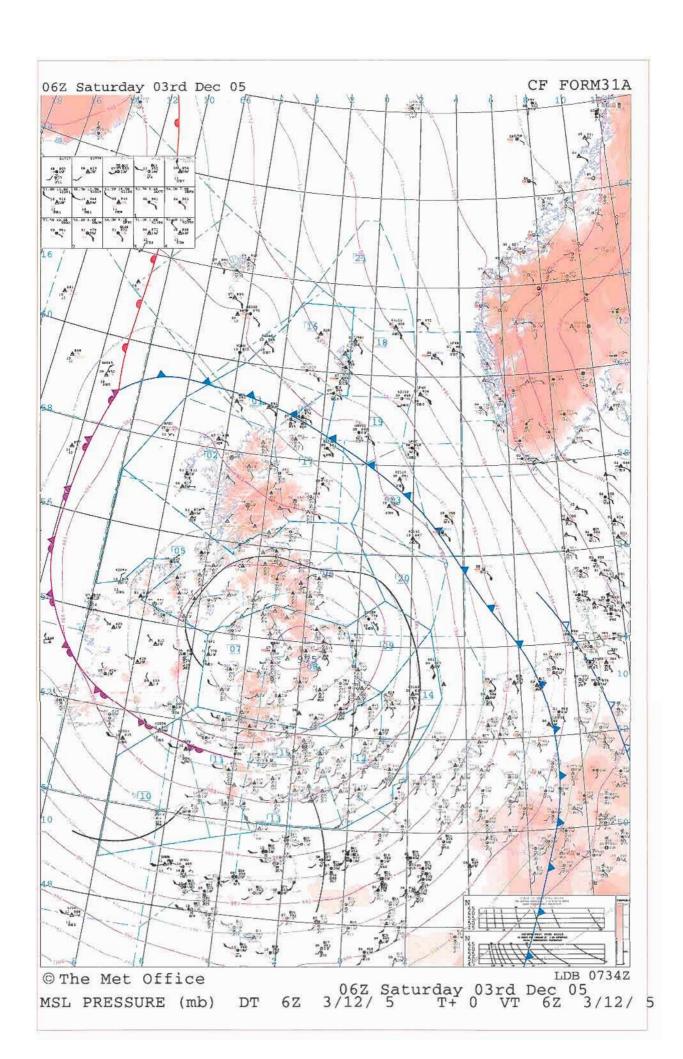
The **Department for Transport** is recommended to:

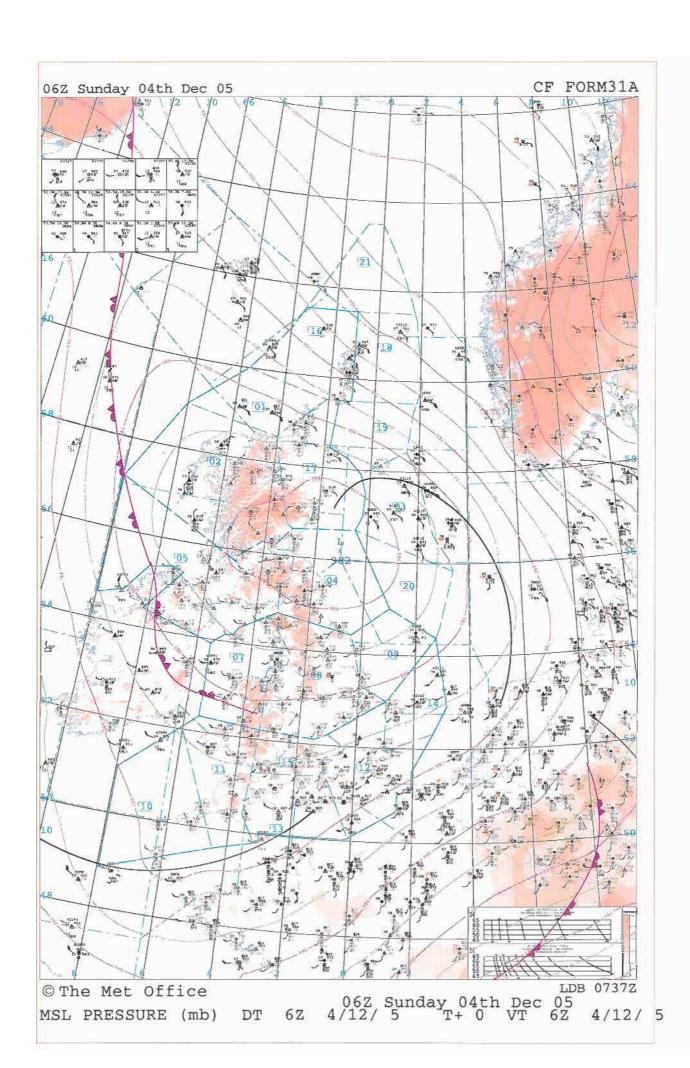
2005/196

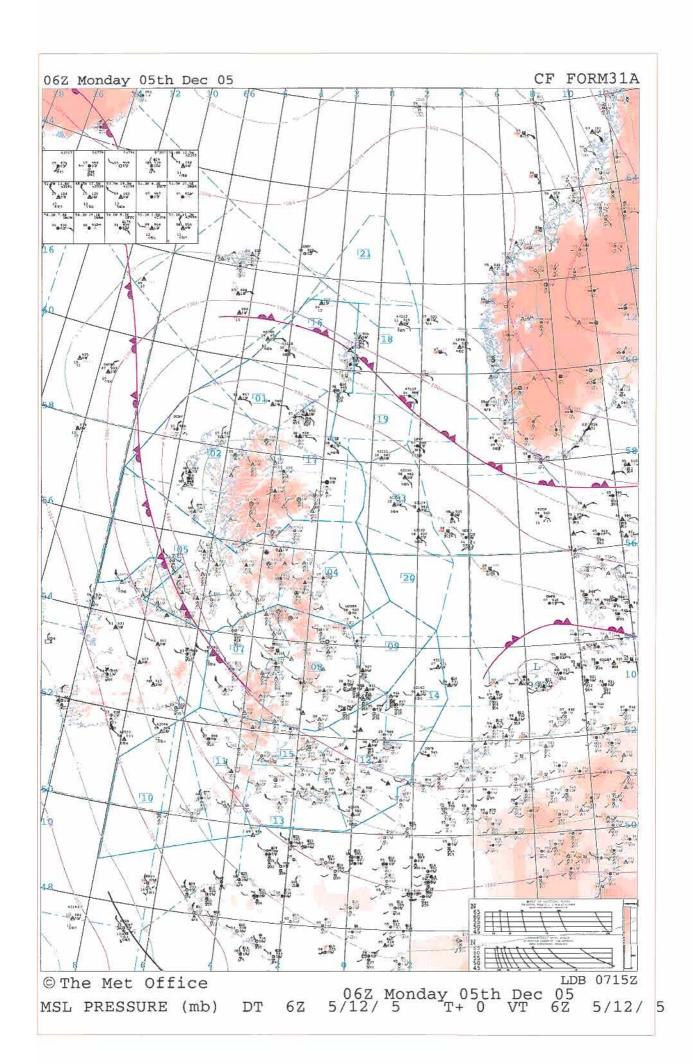
Review the provision of powers necessary for the Maritime and Coastguard Agency to effectively monitor implementation of the port marine safety code and provide direction, where necessary, to ensure necessary levels of safety are maintained.

Marine Accident Investigation Branch September 2005

Meteorological charts from 3, 4 and 5 December 2005





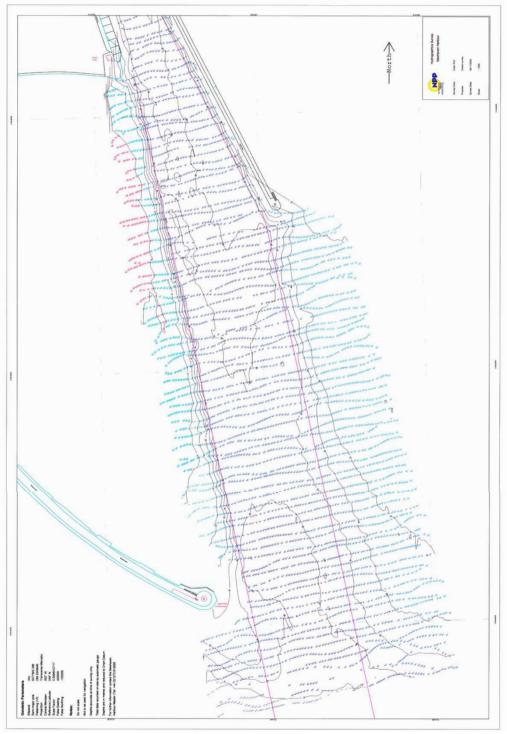


Recorded data

| Date | Time(UTC) | Tide Gauge | Wind Speed | Wind Direction |
|------------|-----------|------------|------------|----------------|
| | | | | |
| 01/12/2005 | 100 | 5.316 | 19 | 194 |
| | 002 | 2.829 | 77 | 190 |
| | 1800 | 1,445 | 38 | 165 |
| | | | | |
| 02/12/2002 | 100 | 6.125 | 32 | 163 |
| | 002 | 2.343 | 67 | 167 |
| | 1800 | 1.414 | 28 | 187 |
| | | | | |
| 03/12/2005 | 100 | 6.734 | 35 | 228 |
| | 002 | 1.515 | 97 | 208 |
| | 1800 | 1.05 | 11 | 258 |
| | | | | |
| 04/12/2005 | 100 | 969.9 | 12 | 261 |
| | 002 | 1.206 | 7 | 357 |
| | 1800 | 1.472 | 6 | 286 |
| | | | | |
| 05/12/2005 | 100 | 6.316 | 10 | 265 |
| | 200 | 1.362 | 9 | 258 |
| | 1800 | 2.174 | 6 | 267 |
| | | | | |



Harbourmaster's locally produced chart - issued 28 November 2005



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|---|---|----|---|---|

D'Orbigny Ship Management - grounding action plan

Form Number: 35

10/03/05 Revision number: 02

GROUNDING

SAFETY ROOM PARTY

Assignation tasks

- -Pumping bilge
- -Close W/T doors manually

BRIDGE

STOP ENGINES (Consider Emergency

- Close watertight doors
- Fix position on the chart
- Switch on deck lighting at night Marks-Lights-Bell and gong
 - initiate hull integrity round

-Emergency closing of bulkhead

Assignation tasks

FIRE PARTY 2

-Check purifier room bilge

-Sound Engine sump

-Check engine room bilge

- Reporting procedure
 - -Contact MRCC
- -Contact ships in vicinity
- Inform passenger over PA Contact ISM structure

 - Note draught
- Note tidal information
- Check weather forecast
- Check nature of seabed

ENGINE CONTROL GROUP

- Use documents to access the situation
 - Estimate point of contact
- and new ship's stability after re floating -Consider transfer possibility to re float Calculate hull stresses
 - Evaluate seaworthiness

-Stop power supply of damage area -Check propeller shafts and rudders

Open higher sea suction

-Check bottom valve

-give ballast situation to the bridge

pump and valve

-Emergency manoeuvring of bilge

Assignation tasks

Consider requesting assistance

DOCUMENTS

Damage control plan

Damage stability SOPEP

BOAT/FIRE FLAP GROUP

Assignation tasks

- -Sounding all around the ship
- -Prepare survival crafts
- -Check oil spillage around vessel

FIRE PARTY 1

Assignation tasks

- -Sounding dry tank
- -Check bow thrusters bilge
 - -Check car deck bilge
- Check heeling pump room

HOSPITAL GROUP

Assignation tasks

-First Aid to injured people

PASSENGER CONTROL PARTY

Assignation tasks

- -Clear passenger cabins
- -Marshall and count passengers at muster station
 - -Evacuate area adjacent to damage
- -Assessment of injured passenger

© D'Orbigny Ship Management 2005

Results from the 5 December survey



NPP wind speed and depth action chart

Wind Speed & Depth Action Charts

| Mean Wind Speed: | Action: |
|-------------------|--|
| 50 Knots or above | Port closed to all vessel traffic |
| All wind speeds | Refer to additional 'Vessel Specific' limits |

The responsibility for applying the identified limits will rest with the Port Duty Supervisor.

Specific Wind Speed & Depth Action Chart – MV Dieppe

| Mean Wind Speed: | Action: |
|-------------------|---|
| 30 Knots or above | To be refused permission for entry or departure |
| 25 Knots or above | To be refused entry whilst other commercial vessels are berthed on East Quay |
| 23 Knots or above | To have tug on stand-by for departure |
| 20 Knots or above | To be refused entry, whilst other commercial vessels are berthed on East Quay, until tide height is 3 metres or above |
| 17 Knots or above | To be refused entry, whilst other commercial vessels are berthed on East Quay, until tide height is 2 metres or above |
| All Wind Speeds | Under Keel Clearance restrictions to be applied as listed below |

| Mean Wind Speed: | Minimum Under Keel Clearance (in metres): | | |
|------------------|---|-------------|--|
| Con appropriate | Ebb Tide: | Flood Tide: | |
| 25 to 30 Knots | 3.0 | 2.5 | |
| 22 to 25 Knots | 2.5 | 2.0 | |
| 17 to 22 Knots | 1.6 | 1.4 | |
| 10 to 17 Knots | 1.4 | 1.2 | |
| Below 10 Knots | 1.0 | 1.0 | |

Specific Wind Speed & Depth Action Chart – MV Sardinia Vera

| Mean Wind Speed: | Act | ion: |
|-------------------|--|--|
| | Arrival: | Departure: |
| 40 Knots or above | To be refused permission for entry | or departure |
| 35 to 40 Knots | Entry to be agreed between Master and Port Supervisor | Tug assistance required |
| 30 to 35 Knots | Tug assistance required in Easterly winds | Tug assistance required |
| 25 to 30 Knots | Tug assistance required in Easterly winds | Tug on stand-by |
| 20 to 25 Knots | Tug on stand-by in Easterly winds | Tug on stand-by for Westerly winds with flood tide |
| All Wind Speeds | Under Keel Clearance restrictions to | o be applied as listed below |

| Mean Wind Speed: | Minimum Under Keel Clearance (in metres): | |
|------------------|---|------------|
| | Arrival: | Departure: |
| 35 to 40 Knots | 2.4 | 2.2 |
| 30 to 35 Knots | 2.2 | 2.0 |
| 25 to 30 Knots | 2.0 | 1.6 |
| 20 to 25 Knots | 1.6 | 1.3 |
| 15 to 20 Knots | 1.4 | 1.2 |
| 10 to 15 Knots | 1.2 | 1.0 |
| Below 10 Knots | 1.0 | 1.0 |

Specific Wind Speed & Depth Action Chart - MV Côte D'Albâtre

| Mean Wind Speed: | Action: |
|-------------------|---|
| 30 Knots or above | To be refused permission for entry or departure |
| 25 Knots or above | |
| 23 Knots or above | |
| 20 Knots or above | |
| 17 Knots or above | |
| All Wind Speeds | Under Keel Clearance restrictions to be applied as listed below |

| Mean Wind Speed: | Minimum Under Keel | Clearance (in metres): |
|------------------|--------------------|------------------------|
| | Ebb Tide: | Flood Tide: |
| 25 to 30 Knots | | |
| 22 to 25 Knots | | |
| 17 to 22 Knots | , | |
| 10 to 17 Knots | | |
| Below 10 Knots | 1.0 | 1.0 |

| Α | n | n | ΔV | |
|------------------|---|---|----|--|
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D'Orbigny Ship Management - operational limitations

Operational Limitations

The following table is a guidline to the limits of berthing in the ports in the normal trading area

If other ports are used local knowledge from the pilot and experience should be used. These are considered the maximum winds speeds for manuovering but other factors such as tidal height will need to be taken into account.

Minimal tidal hieght for both ports is 1.0 metres

Newhaven

| TVOWILE CEE | | | | |
|-------------|---------------------|---|---------------------------|-----------|
| | | Max wind speed at | | |
| | Comments | breackwater | Arrival/Departure | Direction |
| | | 35-40 | A | N |
| | | 30-32 | D | |
| | | 35-40 | А | NE |
| | | 30-30 | D | |
| | With Tug Assistance | 35-40 | А | Ε |
| | With Tug Assistance | 28-30 | D | |
| | | 35-40 | А | SE |
| | With Tug Assistance | 30-32 | D | |
| | | 35-40 | А | S |
| | | 30-32 | D | |
| | | 35-40 | A | SW |
| | | 30-32 | D | |
| | | 35-40 | A | ;W |
| | | 30-32 | D | 1 |
| | With Tug Assistance | 35-40 28-30 35-40 30-32 35-40 30-32 35-40 30-32 35-40 | A D A D A D A D A D A D A | SE S |

The above limits will be adjusted when turning circle with be available for this vessel

Dieppe

| Direction | Arrival/Departure | Maximum wind speed | Comments |
|-----------|-------------------|--------------------|---------------------|
| N | А | 35-40 | |
| | D . | 35-40 | With Tug Assistance |
| NE | A | 35-40 | |
| | D | 35-40 | |
| ·E | A | 35-40 | |
| | D | 35-40 | |
| SE | A | 35-40 | |
| 1 | D | 35-40 | |
| S | A | 35-40 | |
| | D | 35-40 | |
| SW | A | 35-40 | |
| | D | 35-40 | |
| W | A | 35-40 | |
| NVV | A | 25 -3 0 | |
| | D D | 35-40 | |

Timetable

PROGRAMME M/V CÔTE D'ALBÂTRE & M/V SARDINIA VERA 09/10 MARS 2006 (AMENDEMENTS LIES AUX CONDITIONS METEO)

| D'ALBÂTRE D/N 12H30 N/D 17H30 D/N 01H00 | M/V CÔTE D'ALBÂTRE | 0.4.1 | |
|--|------------------------|------------------------------|-------------------|
| ETD SUR RADE 13H00 <i>D/N 12H30</i> RETOUR A POSTE 18H30 ETD SUR RADE 21H00 <i>N/D 17H30</i> 0/03 RETOUR A POSTE 13H00 <i>D/N 01H00</i> ETD ROUTE NWH 18H00 | | M/V S | M/V SARDINIA VERA |
| 18H30 21H00 <i>N/D 17H30</i> 13H00 <i>D/N 01H00</i> 18H00 | 13H00 D/N 12H30 ANNULE | JEUDI 09/03 ETA DP | 13H30 |
| 21H00 N/D 17H30 13H00 D/N 01H00 18H00 | | ETD DP | 18H00* |
| 13H00 D/N 01H00 18H00 | 21H00 N/D 17H30 | ETA NWH | |
| ` | 13H00 D/N 01H00 | ETD NWH | |
| | 18H00 | VENDREDI 10/03 ETA DP | 04H30* |
| | | ETD DP | 12H30* |
| | | | |

* Conditions météo permettant

M/V CA

A prévoir pilote pour 18h00 le 09/03 21h00 le 09/03 12h30 le 10/03 18h00 le 10/03 F.G. 09/03/2006 13H00

TRANSMANCHE FERRIES

HORAIRES

M/V CÔTE D'ALBÂTRE - M/V SV - M/V DIEPPE SEMAINE 13/2006

| | DI EPPE/NEWHAVEN | | NEWHAVEN/DIEPPE | |
|----------------------|--|-----------------------|-----------------|-------------|
| | DEPART | ARRIVEE | DEPART | ARRIVEE |
| | 03H00 | 06H00 | 08H00 | 13H00 |
| LUNDI 27/03/06 | | | 18H30 | 23H30 |
| | 19H00 | 22H20 | 23H30 | 04H50 (J+1) |
| MARDI 28/03/06 | 01H00 | 06H30 | 08H00 | 13H00 |
| | 12H00 | 15H2O | 19H30 | 00H50 (J+1) |
| | 20H00 | 23H00 | 00H30 | 05H30 (J+1) |
| MERCREDI 29/03/06 | 02H30 | 07H30 | 09H30 | 14H20 |
| | 12H30 | 15H30 | 20H30 | 01H30 (J+1) |
| | 18H00 | 21H20 | 23H00 | 04H30 (J+1) |
| | 03H00 | 08H00 | 09H30 | 14H30 |
| | 11H30 | 14H50 | 16H30 | 23H30 |
| JEUDI 30/03/06 | 18H00 | 21H00 | 23H00 | 04H30 (J+1) |
| | 10H30 Graves de Mer - Visite redélivraison - Off-Hire - Route Italie | | | |
| | 18H30* | Process Avitaillement | | |
| | 23H00 | 05H00 | | |
| VENDREDI 31/03/06 | | | 09H00 | 14H20 |
| | 12H30 | 15H30 | 17H30 | 22H30 |
| | 18H00 | 21H20 | 23H00 | 04H30 (J+1) |
| SAMEDI 01/04/06 | 01H00 | 05H00 | 09H30 | 14H30 |
| | 07H30 | 10H50 | | |
| | 19H30 | 22H30 | 21H30 | 02H50 (J+1) |
| | 08H00 | 11H20 | 09H30 | 14H30 |
| DIMANCHE 02/04/06 | | | | |
| | 20H00 | 23H00 | 19H30 | 00H50 (J+1) |

| M/V SARDINIA VERA | | M/V DIEPPE |
|--------------------|---------------------|------------|
| M/V CÔTE D'ALBÂTRE | * Horaire Impératif | |