Diving Incident

This risk assessment complies with PMSC and its associated Guide to Good Practice. The aim is to assess the baseline risk conditions in Newhaven Harbour (the risk with all existing risk control measures in place).

A standard 5x5 risk matrix was used and each hazard was assessed twice. Firstly, to determine the risk associated with the “most likely” (ML) outcome of the hazard and secondly to determine the risk associated with the “worst credible” (WC) outcome for each hazard. The results are then combined to give a total Risk Score for Each Hazards.

The assessment of frequency was made for a notional “most likely” and “worst credible” likelihood of occurrence, for each hazard. These were combined with assessments of typical consequences to people (PE), property (PR), environmental (EN) and business/stakeholder (ST).

The frequency and consequence score are combined to give two separate risk score that represent the “most likely” and “worst credible” risk for each hazard. These two scores are further combined to give a final risk score for each hazard, between 0 and 10.

The risk scores are sorted into a Ranked Hazard List that shows the highest risk hazards prioritised at the top and the lowest at the bottom.

Risk are deemed to be negligible, low, As low as Reasonably Practicable (ALARP), significant or high.

This Navigation Risk Assessment (NRA) identified 88 navigation-related hazards in the Newhaven Harbour.

Two hazards have risk scores which lie towards the low end of the “ALARP” region; as per our Safety Management System these risk and associated risk control measures are regularly reviewed. The other hazards in Newhaven harbour were assessed to be either “negligible” or “low risk”; therefore, no additional risk control measures are required.

Reading Index and content of the NRA form:

1. Hazard Title
   Category - #2 out of 88
   - #1. – Hazards Reference Number
   - Hazard Title – i.e. Ferry in collision with (ICW) Windfarm Support Vessel / Workboat
   - Category – i.e. Collision
   - #2 - Ranked Hazard Number
   - 88 total number of Hazards
   - Consequence Frequency Charts
   - Hazards Criteria
   - Hazard Description
   - Hazard Outcomes

Ranked Hazard Index:
1. Diving Incident
14. Diving Incident
Diving - 33 out of 88

HAZARD RISK

5
Consequence

1
Frequency

MOST LIKELY

5
Consequence

PE, ST

3
Frequency

EN, PR

1

WORST CREDIBLE

5
Consequence

PE

3
Frequency

ST

1

Hazard Criteria

Areas Affected
Harbour entrance - 0.25nm south of breakwater to No.2 RoRo
Newhaven Marina and water behind Denton Island
No. 2 RoRo to the northern harbour limit
Outer harbour area

Stakeholders
Berth Operators
Commercial Ships Owner
Ferry Operator
Local Fishing Organizations
Marina Operators
NPA
Rampion
Recreational Organizations
RNLI

Vessels
Primary Vessels
Bunker Barge
Secondary Vessels
Bunker Barge

Review
Every 1 YEAR by NPA
Last Review
12 Mar 2019
Next Review
2 Apr 2021

Hazard Description

Detail
An incident involving a diver in the Port Limits

Possible Causes
Failure to comply with NPA Diving Permit System,
Failure to comply with NPA Pilot Boats Operational,
Maintenance and Emergency Procedures, Inadequate seamanship / watch keeping, Visiting vessels unfamiliar with local regulations
Failure to comply with NHA Diving Permit System;
Diver struck or separated from support vessel by passing vessel; Diver injured by machinery / equipment operated by people that are unaware of dive operations in the vicinity.
Hazard Outcomes

<table>
<thead>
<tr>
<th></th>
<th>Most Likely</th>
<th>Worst Credible</th>
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<tr>
<td>Frequency</td>
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<tr>
<td>People</td>
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<td>4.85</td>
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<tr>
<td>Stakeholders</td>
<td>1.85</td>
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</table>

**Most Likely Outcomes**
Single minor injury to diver; Very minor damage to property or dive vessel; No environmental effect of note; Very short-term disruption to services with ensuing loss of revenue.

**Worst Credible Outcomes**
Multiple major injuries or single fatality to the diver; Very minor damage to property or dive vessel; No environmental effect of note; Adverse local publicity, short-term loss of revenue including minor disruption to commercial activities.

### Risk Controls

<table>
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<tr>
<th>Title</th>
<th>Type</th>
<th>Owner</th>
<th>Fr. Eff</th>
<th>Co. Eff</th>
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<td>NPA Emergency Plans.</td>
<td>Procedures</td>
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<td>Education and Training</td>
<td>MCA/RNLI</td>
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<td>Procedures</td>
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