

## ANNEX 6 - Equipment in Scope of the UK-US MRA on Marine Equipment

### ANNEX II to the Agreement between the United Kingdom of Great Britain and Northern Ireland and the United States of America on the Mutual Recognition of Certificates of Conformity for Marine Equipment

#### PRODUCT COVERAGE FOR MUTUAL RECOGNITION

General note:

The international conventions apply in their up-to-date version. For the purpose of identifying correctly the relevant standards, test reports, certificates of conformity and declarations of conformity shall identify the specific testing standard applied and its version.

This table will apply upon the coming into force of The Merchant Shipping (Marine Equipment) (Amendment) (UK and US Mutual Recognition Agreement) (EU Exit) Regulations 2019.

#### Life-saving appliances

| Product item identification   | Applicable international instruments for construction, and testing requirements <sup>1</sup>  | international for performance | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance   |
|---|---|-------------------------------|---|--|
| Position-indicating lights for life-saving appliances:<br>(a) for survival craft and rescue boats | <ul style="list-style-type: none"> <li>- IMO Res.MSC.36(63)- (1994 HSC Code) 8</li> <li>- IMO Res.MSC.48(66)- (LSA Code) I, II, IV</li> <li>- IMO Res.MSC.81(70), as amended</li> </ul> | (LSA                          | UK/1.2a   | <ul style="list-style-type: none"> <li>- USCG 161.101</li> <li>- Guidance for Approval of Position-indicating lights for survival craft dated 11 March 1999</li> </ul> |

<sup>1</sup> “LSA Code” refers to the International Life-Saving Appliance Code adopted on 4 June 1996 (IMO Resolution MSC.48(66)).

“Recommendation on Testing” refers to the IMO recommendation on Testing of Life-Saving Appliances adopted on 6 November 1991 (IMO Resolution A.689(17)) as amended on 11 December 1998 (IMO Resolution MSC.81(70)).

|  |   |  |  |
|--|---|--|--|
|  | - IMO<br>Res.MSC.97(73)- (2000<br>HSC Code) 8 |  |  |
|--|---|--|--|

| Product item identification   | Applicable international instruments for construction, performance and testing requirements <sup>1</sup>  | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance  |
|---|---|---|---|
| Position-indicating lights for life-saving appliances:<br>(b) for lifebuoys   | - IMO<br>Res.MSC.36(63)- (1994<br>HSC Code) 8<br>- IMO<br>Res.MSC.48(66)- (LSA<br>Code) I, II,<br>- IMO<br>Res.MSC.81(70), as<br>amended<br>- IMO<br>Res.MSC.97(73)- (2000<br>HSC Code) 8 | UK/1.2b   | - USCG<br>161.110   |
| Position-indicating lights for life-saving appliances:<br>(c) for lifejackets | - IMO<br>Res.MSC.36(63)- (1994<br>HSC Code) 8<br>- IMO<br>Res.MSC.48(66)- (LSA<br>Code) I, II<br>- IMO<br>Res.MSC.81(70), as<br>amended<br>- IMO<br>Res.MSC.97(73)- (2000<br>HSC Code) 8  | UK/1.2c   | - USCG<br>161.112<br>- Lifejacket<br>light approval<br>Guidance<br>(SOLAS) 22<br>March 1999 |

|  |   |               |   |
|--|---|---------------|---|
| <p>Lifebuoy self-activating smoke signals</p> <p>Note: Expiration date not to exceed 48 months after month of manufacture.</p> | <p>- IMO Res. MSC.36(63)- (1994 HSC Code) 8</p> <p>- IMO Res. MSC.48(66)- (LSA Code) I, II</p> <p>- IMO Res. MSC.81(70), as amended</p> <p>- IMO Res. MSC.97(73)- (2000 HSC Code) 8</p> | <p>UK/1.3</p> | <p>- USCG 160.157</p> <p>- Guidelines for Approval of "SOLAS" Pyrotechnic Signals and Line Throwing Appliances, March 2005.</p> |
|--|---|---------------|---|

| Product item identification  | Applicable international instruments for construction, performance and testing requirements <sup>1</sup>   | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance   |
|--|--|---|--|
| <p>Rocket parachute flares (pyrotechnics)</p> <p>Note: Expiration date not to exceed 48 months after month of manufacture.</p> | <p>- IMO Res. MSC.36(63)- (1994 HSC Code) 8</p> <p>- IMO Res. MSC.48(66)- (LSA Code) I, III</p> <p>- IMO Res. MSC.81(70), as amended</p> <p>- IMO Res. MSC.97(73)- (2000 HSC Code) 8</p> | <p>UK/1.8</p>   | <p>- USCG 160.136</p> <p>- Guidelines for Approval of "SOLAS" Pyrotechnic Signals and Line Throwing Appliances, March 2005</p> |
| <p>Hand flares (pyrotechnics)</p> <p>Note: Expiration date not to exceed 48 months after month of manufacture.</p>             | <p>- IMO Res. MSC.36(63)- (1994 HSC Code) 8</p> <p>- IMO Res. MSC.48(66)- (LSA Code) I, III</p> <p>- IMO Res. MSC.81(70), as amended</p> <p>- IMO Res. MSC.97(73)- (2000 HSC Code) 8</p> | <p>UK/1.9</p>   | <p>- USCG 160.121</p> <p>- Guidelines for Approval of "SOLAS" Pyrotechnic Signals and Line Throwing Appliances,</p>            |

|  |   |         |  |
|--|---|---------|--|
|  |   |         | March 2005   |
| <p>Buoyant smoke signals (pyrotechnics)</p> <p>Note: Expiration date not to exceed 48 months after month of manufacture.</p> | <p>- IMO Res. MSC.48(66)-(LSA Code) I, III</p> <p>- IMO Res. MSC.81(70), as amended</p> | UK/1.10 | <p>- USCG 160.122</p> <p>- Guidelines for Approval of "SOLAS" Pyrotechnic Signals and Line Throwing Appliances, March 2005</p> |

| Product item identification   | Applicable international instruments for construction, performance and testing requirements <sup>1</sup>   | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance   |
|---|--|---|--|
| <p>Line- throwing appliances</p> <p>Note: Expiration date not to exceed 48 months after month of manufacture.</p> | <p>- IMO Res. MSC.36(63)-(1994 HSC Code) 8</p> <p>- IMO Res. MSC.48(66)-(LSA Code) I, VII</p> <p>- IMO Res. MSC.81(70), as amended</p> <p>- IMO Res. MSC.97(73)- (2000 HSC Code) 8</p> | UK/1.11   | <p>- 46 CFR 160.040</p> <p>- Guidelines for Approval of "SOLAS" Pyrotechnic Signals and Line Throwing Appliances, March 2005</p> <p>- MIL- R- 45505 A2</p> |

|   |   |                |   |
|---|---|----------------|---|
| <p>Rigid liferafts</p> <p>Note: The emergency pack is not covered by this Agreement</p>   | <ul style="list-style-type: none"> <li>- IMO Res. MSC.36(63)- (1994 HSC Code) 8</li> <li>- IMO Res. MSC.48(66)- (LSA Code) I, IV</li> <li>- IMO Res. MSC.81(70), as amended</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code) 8</li> </ul>  | <p>UK/1.13</p> | <ul style="list-style-type: none"> <li>- USCG 160.118</li> <li>- Rigid liferaft – Coast Guard (CG-5214) Review Checklist, 27 July 1998</li> </ul> |
| <p>Automatically self-righting liferafts (rigid liferafts only/inflatable liferafts not covered)</p> <p>Note: The emergency pack is not covered by this Agreement</p> | <ul style="list-style-type: none"> <li>- IMO Res. MSC.36(63)- (1994 HSC Code) 8</li> <li>- IMO Res. MSC.48(66)- (LSA Code) I, IV</li> <li>- IMO Res. MSC.81(70), as amended</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code) 8</li> <li>- IMO MSC Circ.809</li> <li>- IMO MSC Circ.811</li> <li>- IMO MSC.1 Circ.1328</li> </ul> | <p>UK/1.14</p> | <ul style="list-style-type: none"> <li>- USCG 160.118</li> <li>- Rigid liferaft – Coast Guard (CG-5214) Review Checklist, 27 July 1998</li> </ul> |

| Product item identification | Applicable international instruments for construction, performance and testing requirements <sup>1</sup> | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance |
|-----------------------------|--|---|--|
|                             |  |   |  |

|   |   |                    |  |
|---|---|--------------------|--|
| <p>Canopied reversible liferafts (rigid liferafts only/inflatable liferafts not covered)</p> <p>Note: The emergency pack is not covered by this Agreement</p>   | <ul style="list-style-type: none"> <li>- IMO Res. MSC.36(63)- (1994 HSC Code) 8</li> <li>- IMO Res. MSC.48(66)- (LSA Code) I, IV</li> <li>- IMO Res. MSC.81(70), as amended</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code) 8</li> <li>- IMO MSC Circ.809</li> <li>- IMO MSC Circ.811</li> <li>- IMO MSC.1 Circ.1328</li> </ul> | <p>UK/1.15</p>     | <ul style="list-style-type: none"> <li>- USCG 160.118</li> <li>- Rigid liferaft – Coast Guard (CG-5214) Review Checklist, 27 July 1998</li> </ul>            |
| <p>Float-free arrangements for liferafts (hydrostatic release units)</p>  | <ul style="list-style-type: none"> <li>- IMO Res. MSC.36(63)- (1994 HSC Code) 8</li> <li>- IMO Res. MSC.48(66)- (LSA Code) I, IV</li> <li>- IMO Res. MSC.81(70), as amended</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code) 8</li> <li>- IMO MSC Circ.811</li> </ul>  | <p>UK/1.16</p>     | <ul style="list-style-type: none"> <li>- USCG 160.162 - Interim Guidelines for Approval and Production Testing of SOLAS Hydrostatic Release Units</li> </ul> |
| <p>Release mechanism for:<br/>(a) Lifeboats and rescue boats (launched by a fall or falls)</p> <p>Limited to Davit-launched liferaft automatic release hook</p> | <ul style="list-style-type: none"> <li>- IMO Res. MSC.36(63)- (1994 HSC Code) 8</li> <li>- IMO Res. MSC.48(66)- (LSA Code) I, IV</li> <li>- IMO Res. MSC.81(70), as amended</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code) 8</li> <li>- IMO MSC.1/Circ.1419</li> </ul>   | <p>UK/1.26 (a)</p> | <ul style="list-style-type: none"> <li>- 46 CFR 160.170</li> </ul>   |

| Product item identification  | Applicable international instruments for construction, performance and testing requirements <sup>1</sup>   | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance |
|--|--|---|--|
| Release mechanism for :<br>(b) Liferafts<br>(launched by a fall or falls)<br><br>Limited to Davit-launched liferaft automatic release hook | <ul style="list-style-type: none"> <li>- IMO Res. MSC.36(63)- (1994 HSC Code) 8</li> <li>- IMO Res. MSC.48(66)- (LSA Code) I, VI</li> <li>- IMO Res. MSC.81(70), as amended</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code) 8</li> </ul>   | UK/1.26 (b)   | - 46 CFR 160.170                               |
| Marine evacuation systems  | <ul style="list-style-type: none"> <li>- IMO Res. MSC.36(63)- (1994 HSC Code) 8</li> <li>- IMO Res. MSC.48(66)- (LSA Code) I, VI</li> <li>- IMO Res. MSC.81(70), as amended</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code) 8</li> </ul>   | UK/1.27   | - USCG 160.175                                 |
| Embarkation Ladders  | <ul style="list-style-type: none"> <li>- IMO Res. MSC.36(63)- (1994 HSC Code)</li> <li>- IMO Res. MSC.48(66)- (LSA Code) I, VI</li> <li>- IMO Res. MSC.81(70), as amended</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code)</li> <li>- IMO MSC.1/Circ.1285</li> <li>- ISO 5489:2008</li> </ul> | UK/1.29   | - USCG 160.117                                 |

| Product item identification | Applicable international instruments for construction, performance and testing requirements <sup>1</sup>   | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance  |
|-----------------------------|--|---|---|
| Retro-reflective materials  | <ul style="list-style-type: none"> <li>- IMO Res. A.658(16)</li> <li>- IMO Res. MSC.36(63)-(1994 HSC Code) 8</li> <li>- IMO Res. MSC.48(66)-(LSA Code) I</li> <li>- IMO Res. MSC.97(73)-(2000 HSC Code) 8</li> </ul> | UK/1.30   | <ul style="list-style-type: none"> <li>- 46 CFR 164.018</li> <li>- NVIC 2-92</li> </ul> |



## FIRE PROTECTION

| Product identification item  | Applicable international instruments for construction, performance and testing requirements   | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance   |
|--|---|---|--|
| Primary decks covering   | <ul style="list-style-type: none"> <li>- IMO Res. MSC.36(63)- (1994 HSC Code) 7</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code) 7</li> <li>- IMO Res. MSC.307(88) (2010 FTP Code), as amended</li> </ul>                        | UK/3.1  | - 46 CFR 164.106   |
| <p>'A' &amp; 'B' Class divisions fire integrity</p> <p>(a) 'A' class divisions,</p>  | <ul style="list-style-type: none"> <li>- IMO Res. MSC.307(88) (2010 FTP Code), as amended</li> <li>- IMO MSC/Circ.1120</li> <li>- IMO MSC.1/Circ.1434</li> <li>- IMO MSC.1/Circ.1435</li> <li>- IMO MSC.1/Circ. 1616</li> </ul> | UK/3.11 (a)   | <ul style="list-style-type: none"> <li>- 46 CFR 164.105</li> <li>- 46 CFR 164.107</li> </ul> |
| <p>'A' &amp; 'B' Class divisions fire integrity</p> <p>(b) 'B' class divisions.</p> <p>Note: Restricted 'B' Class divisions are not covered by this agreement.</p> | <ul style="list-style-type: none"> <li>- IMO Res. MSC.307(88) (2010 FTP Code), as amended</li> <li>- IMO MSC/Circ. 1120</li> <li>- IMO MSC.1/Circ. 1581</li> </ul>  | UK/3.11 (b)   | <ul style="list-style-type: none"> <li>- 46 CFR 164.108</li> <li>- 46 CFR 164.110</li> </ul> |

|                           |  |         |                  |
|---------------------------|--|---------|------------------|
| Non-combustible materials | <ul style="list-style-type: none"> <li>- IMO Res. MSC.36(63)- (1994 HSC Code) 7</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code) 7</li> <li>- IMO Res. MSC.307(88) (2010 FTP Code), as amended</li> </ul> | UK/3.13 | - 46 CFR 164.109 |
|---------------------------|--|---------|------------------|

| Product item identification  | Applicable international instruments for construction, performance and testing requirements   | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance |
|--|---|---|--|
| <p>Fire doors</p> <p>Limited to fire doors without windows or with total window area no more than 645 cm<sup>2</sup> in each door leaf. Approval limited to maximum door size tested. Doors must be used with a fire tested frame design.</p> <p>Note: Restricted 'B' Class doors are not covered by this agreement.</p> | <ul style="list-style-type: none"> <li>- IMO Res. MSC.307(88) -(2010 FTP Code), as amended</li> <li>- IMO MSC.1/Circ.1319</li> <li>- IMO MSC.1/Circ.1511</li> </ul> | UK/3.16   | - 46 CFR 164.136                               |

|  |   |                |                         |
|--|---|----------------|-------------------------|
| <p>Fire door control systems components.</p> <p>Note: When the term “system components” is used in column 1 it may be that a single component, a group of components or a whole system needs to be tested to ensure that the international requirements are fulfilled.</p> | <ul style="list-style-type: none"> <li>- IMO MSC.97(73)-(2000 HSC Code) 7</li> <li>- IMO MSC.307(88) – (2010 FTP Code), as amended</li> </ul> | <p>UK/3.17</p> | <p>- 46 CFR 164.146</p> |
|--|---|----------------|-------------------------|

| Product item identification   | Applicable international instruments for construction, performance and testing requirements  | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance |
|---|--|---|--|
| <p>Surface materials and floor coverings with low flame- spread characteristics<br/>(a) decorative veneers.</p> | <ul style="list-style-type: none"> <li>- IMO Res. MSC.36(63)-(1994 HSC Code) 7</li> <li>- IMO Res. MSC.97(73)-(2000 HSC Code) 7</li> <li>- IMO Res. MSC.307(88)(2010 FTP Code), as amended</li> <li>- IMO MSC Circ.1120</li> </ul> | <p>UK/3.18<br/>(a)</p>  | <p>- 46 CFR 164.112</p>                        |
| <p>Surface materials and floor coverings with low flame- spread characteristics<br/>(b) paint systems.</p>      | <ul style="list-style-type: none"> <li>- IMO Res. MSC.36(63)-(1994 HSC Code) 7</li> <li>IMO Res. MSC. 97(73) - (2000 HSC Code) 7</li> <li>- IMO Res. MSC.307(88)(2010 FTP Code), as amended</li> </ul>                             | <p>UK/3.18<br/>(b)</p>  | <p>- 46 CFR 164.112</p>                        |

|   |  |             |                  |
|---|--|-------------|------------------|
|   | - IMO MSC Circ. 1120   |             |                  |
| Surface materials and floor coverings with low flame- spread characteristics (c) floor coverings.   | - IMO Res. MSC.36(63)- (1994 HSC Code) 7<br>- IMO Res. MSC.97(73)- (2000 HSC Code) 7<br>- IMO Res. MSC.307(88)(2010 FTP Code), as amended<br>- IMO MSC Circ.1120 | UK/3.18 (c) | - 46 CFR 164.117 |
| Surface materials and floor coverings with low flame- spread characteristics (f) combustible ducts. | - IMO Res. MSC.36(63)- (1994 HSC Code) 7<br>- IMO Res. MSC.97(73)- (2000 HSC Code) 7<br>- IMO Res. MSC.307(88)(2010 FTP Code), as amended<br>- IMO MSC Circ.1120 | UK/3.18 (f) | - 46 CFR 164.112 |

| Product item identification   | Applicable international instruments for construction, performance and testing requirements  | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance |
|---|--|---|--|
| Draperies, curtains and other suspended textile materials and films | - IMO Res. MSC.36(63)- (1994 HSC Code) 7<br>- IMO Res. MSC.97(73)- (2000 HSC Code) 7<br>- IMO Res. MSC.307(88)(2010 FTP Code), as amended<br>- IMO MSC.1 Circ.1456, as amended | UK/3.19   | 46 CFR 164.111                                 |

|  |   |                |                     |
|--|---|----------------|---------------------|
| Upholstered furniture  | - IMO Res. MSC.36(63)-<br>(1994 HSC Code) 7<br>- IMO Res.<br>MSC.97(73)- (2000<br>HSC Code) 7<br>- IMO Res. MSC.307(88)<br>(2010 FTP Code), as<br>amended | UK/3.20        | - 46 CFR<br>164.144 |
| Bedding components   | - IMO Res. MSC.36(63)-<br>(1994 HSC Code) 7<br>- IMO Res.<br>MSC.97(73)- (2000<br>HSC Code) 7<br>- IMO Res. MSC.307(88)<br>(2010 FTP Code), as<br>amended | UK/3.21        | - 46 CFR<br>164.142 |
| Fire dampers   | - IMO Res. MSC.307(88)<br>(2010 FTP Code), as<br>amended  | UK/3.22        | - 46 CFR<br>164.139 |
| Penetrations through<br>'A' class<br>(a) electric cable<br>transits. | - IMO Res.<br>MSC.307(88) (2010 FTP<br>Code), as amended<br>- MSC.1/Circ 1488   | UK/3.26<br>(a) | - 46 CFR<br>164.138 |

|   |   |  |   |
|---|---|--|---|
| Product item<br>identification  | Applicable international<br>instruments for<br>construction, performance<br>and testing requirements      | UK<br>technical<br>regulations,<br>item<br>number<br>indicated in<br>Annex I of<br>Merchant<br>Shipping<br>Notice<br>1874, as<br>amended | US<br>technical<br>regulations<br>and<br>approval<br>guidance |
| Penetrations through 'A'<br>class<br>(b) pipe, duct, trunk,<br>etc., penetrations | - IMO Res.<br>MSC.307(88) (2010 FTP<br>Code), as amended<br>- IMO MSC.1<br>Circ.1276<br>- MSC.1/Circ 1488 | UK/3.26<br>(b)   | - 46 CFR<br>164.138   |

|  |   |                |                         |
|--|---|----------------|-------------------------|
| <p>Fire restricting materials (except furniture) for highspeed craft</p> | <ul style="list-style-type: none"> <li>- IMO Res. MSC.36(63)- (1994 HSC Code) 7</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code) 7</li> <li>- IMO Res. MSC.307(88)(2010 FTP Code), as amended</li> <li>- IMO MSC.1 Circ.1457</li> </ul>  | <p>UK/3.32</p> | <p>- 46 CFR 164.201</p> |
| <p>Fire restricting materials for furniture for high speed craft</p>     | <ul style="list-style-type: none"> <li>- IMO Res. MSC.36(63)- (1994 HSC Code) 7</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code) 7</li> <li>- IMO Res. MSC.307(88) (2010 FTP Code), as amended</li> </ul>                                | <p>UK/3.33</p> | <p>- 46 CFR 164.201</p> |
| <p>Fire resisting divisions for high speed craft</p>                     | <ul style="list-style-type: none"> <li>- IMO Res. MSC.36(63)- (1994 HSC Code) 7</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code) 7</li> <li>- IMO Res. MSC.307(88) (2010 FTP Code), as amended</li> <li>- IMO MSC.1 Circ.1457</li> </ul> | <p>UK/3.34</p> | <p>- 46 CFR 164.207</p> |

## NAVIGATION EQUIPMENT

### Notes applicable to this section:

1. Resolution A.1021(26) and Resolution MSC.302(87) shall be considered, as applicable, for all the navigation equipment - They refer to “Code on alerts and indicators, 2009,” and to “Adoption of performance standards for bridge alert management,” respectively.
2. **IEC 61162 series refer to the following reference standards for Maritime navigation and radio-communication equipment and systems - Digital interfaces:**
  - IEC 61162- 1 (2016) - Part 1: Single talker and multiple listeners □  
IEC 61162- 2 ed1.0 (1998- 09) - Part 2: Single talker and multiple listeners, **high- speed transmission**
  - IEC 61162- 3 ed1.2 Consol. with am1 ed. 1.0 (2010- 11) and am2 ed. 1.0 (2014- 07) - Part 3: Serial data instrument network
  - **IEC 61162- 3 ed1.0 (2008- 05) - Part 3: Serial data instrument network**
  - IEC 61162- 3- am1 ed1.0 (2010- 06) Amendment 1 - Part 3: Serial data instrument network
  - **IEC 61162- 3- am2 ed1.0 (2014- 07) Amendment 2 - Part 3: Serial data instrument network**
  - IEC 61162- 450 ed1.0 (2011- 06) with am1 (2016)- Part 450: Multiple talkers and multiple listeners - Ethernet interconnection



| Product item identification                       | Applicable international instruments for construction, performance and testing requirements  | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance  |
|---|--|---|---|
| Magnetic compass Class A for ships                | <ul style="list-style-type: none"> <li>- IMO Res. A.382(X)</li> <li>- IMO Res. A.694(17)</li> <li>- IMO Res. MSC.36(63)- (1994 HSC Code) 13</li> <li>IMO Res. MSC.97(73)- (2000 HSC Code) 13</li> <li>- IMO Res.MSC.302(87)</li> <li>- ISO 1069 (1973)</li> <li>- ISO 25862 (2009)</li> <li>- IEC 60945 (2002)</li> <li>incl. IEC 60945 Corr.1 (2008)</li> </ul>   | UK/4.1  | <ul style="list-style-type: none"> <li>- USCG 165.101</li> <li>- NVIC 8- 01, CHANGE 3</li> </ul>  |
| Transmitting heading device THD (magnetic method) | <ul style="list-style-type: none"> <li>- IMO Res. A.694(17)</li> <li>- IMO Res. MSC.36(63)- (1994 HSC Code) 13</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code) 13</li> <li>- IMO Res. MSC.116(73)</li> <li>- IMO Res. MSC.191(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008)</li> <li>- IEC 61162 series</li> <li>- IEC 62288 Ed. 2.0 (2014- 07)</li> <li>- ISO 22090- 2 (2014)</li> </ul> | UK/4.2  | <ul style="list-style-type: none"> <li>- USCG 165.102</li> <li>- NVIC 8- 01, CHANGE 3</li> <li>Note: The use of ISO 11606:2000/Cor 1:2005 is required for Acceptance for USCG Approval under the MRA</li> </ul> |





| Product item identification | Applicable international instruments for construction, performance and testing requirements  | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance   |
|-----------------------------|--|---|--|
| Gyro compass                | <ul style="list-style-type: none"> <li>- IMO Res. A.424(XI)</li> <li>- IMO Res. A.694(17)</li> <li>- IMO Res. MSC.191(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- ISO 8728:2014</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008)</li> <li>- IEC 61162 series</li> <li>- IEC 62288 Ed. 2.0 (2014- 07).</li> </ul>  | UK/4.3  | <ul style="list-style-type: none"> <li>- USCG 165.103</li> <li>- NVIC 8- 01, CHANGE 3</li> </ul> |
| Echo - sounding equipment   | <ul style="list-style-type: none"> <li>- IMO Res. A.224(VII)</li> <li>- IMO Res. A.694(17)</li> <li>- IMO Res. MSC.36(63)- (1994 HSC Code) 13</li> <li>- IMO Res. MSC.74(69) Annex 4</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code) 13</li> <li>- IMO Res. MSC.191(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- ISO 9875 (2000)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008)</li> </ul> | UK/4.6  | <ul style="list-style-type: none"> <li>- USCG 165.107</li> <li>- NVIC 8- 01, CHANGE 3</li> </ul> |



|  |  |  |  |
|--|--|--|--|
|  | <ul style="list-style-type: none"> <li>- IEC 61162 series</li> <li>- IEC 62288 Ed. 2.0 (2014- 07)</li> </ul> |  |  |
|--|--|--|--|

|   |   |   |  |
|---|---|---|--|
| Product item identification                   | Applicable international instruments for construction, performance and testing requirements   | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance   |
| Speed and distance measuring equipment (SDME) | <ul style="list-style-type: none"> <li>- IMO Res. A.694(17)</li> <li>- IMO Res. A.824(19)</li> <li>- IMO Res. MSC.36(63)-(1994 HSC Code) 13</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code) 13</li> <li>- IMO Res. MSC.302(87)</li> <li>- IMO Res. MSC.191(79)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008)</li> <li>- IEC 61023 (2007)</li> <li>- IEC 61162 series</li> <li>- IEC 62288 Ed. 2.0 (2014- 07)</li> </ul> | UK/4.7  | <ul style="list-style-type: none"> <li>- USCG 165.105</li> <li>- NVIC 8- 01, CHANGE 3</li> </ul> |



|                        |  |        |  |
|------------------------|--|--------|--|
| Rate-of-turn indicator | <ul style="list-style-type: none"> <li>- IMO Res. A.526(13)</li> <li>- IMO Res. A.694(17)</li> <li>- IMO MSC.36(63)-(1994 HSC Code) 13</li> <li>- IMO Res. MSC.97(73)-(2000 HSC Code) 13</li> <li>- IMO Res.MSC.191(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008)</li> <li>- IEC 61162 series</li> <li>- ISO 20672 (2007) including Corr. 1 (2008)</li> <li>- IEC 62288 Ed. 2.0 (2014- 07)</li> </ul> | UK/4.9 | <ul style="list-style-type: none"> <li>- USCG 165.106</li> <li>- NVIC 8- 01, CHANGE 3</li> </ul> |
| Loran- C equipment     | Deliberately left blank.   |        |  |
| Chayka equipment       | Deliberately left blank.   |        |  |

|                             |   |   |  |
|-----------------------------|---|---|--|
| Product item identification | Applicable international instruments for construction, performance and testing requirements | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance |
|-----------------------------|---|---|--|



|                   |   |         |   |
|-------------------|---|---------|---|
| GPS equipment     | <ul style="list-style-type: none"> <li>- IMO Res. A.694(17)</li> <li>- IMO Res. MSC.36(63)-<br/>(1994 HSC Code) 13</li> <li>- IMO Res. MSC.97(73)-<br/>(2000 HSC Code) 13</li> <li>- IMO Res. MSC.112(73)</li> <li>- IMO Res. MSC.191(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- IEC 60945 (2002) incl.<br/>IEC 60945 Corr.1 (2008)</li> <li>- IEC 61108- 1<br/>Ed.2.0 (2003)</li> <li>- IEC 61162 series</li> <li>- IEC 62288 Ed. 2.0<br/>(2014- 07)</li> </ul> | UK/4.14 | <ul style="list-style-type: none"> <li>- USCG</li> </ul> <p>165.130</p> <ul style="list-style-type: none"> <li>- NVIC</li> </ul> <p>8- 01,<br/>CHANGE 3</p> |
| GLONASS equipment | <ul style="list-style-type: none"> <li>- IMO Res. A.694(17)</li> <li>- IMO Res. MSC.36(63)-<br/>(1994 HSC Code) 13</li> <li>- IMO Res. MSC.97(73)-<br/>(2000 HSC Code) 13</li> <li>- IMO Res. MSC.113(73)</li> <li>- IMO Res. MSC.191(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- IEC 60945 (2002) incl.<br/>IEC 60945 Corr.1 (2008)</li> <li>- IEC 61108-2 (1998)</li> <li>- IEC 61162 series</li> <li>- IEC 62288 Ed. 2.0<br/>(2014- 07)</li> </ul>             | UK/4.15 | <ul style="list-style-type: none"> <li>- USCG</li> </ul> <p>165.131</p> <ul style="list-style-type: none"> <li>- NVIC</li> </ul> <p>8- 01,<br/>CHANGE 3</p> |



| Product item identification  | Applicable international instruments for construction, performance and testing requirements  | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance   |
|------------------------------|--|---|--|
| Heading control system (HCS) | <ul style="list-style-type: none"> <li>- IMO Res. A.342(IX)</li> <li>- IMO Res. A.694(17)</li> <li>- IMO Res. MSC.191(79)</li> <li>- IMO Res.MSC.64(67) Annex 3</li> <li>- IMO Res.MSC.302(87)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008)</li> <li>- IEC 61162 series,</li> <li>- IEC 62288 Ed. 2.0 (2014-07)</li> <li>- ISO 11674 (2006)</li> </ul>                        | UK/4.16   | <ul style="list-style-type: none"> <li>- USCG 165.110</li> <li>- NVIC 8- 01, CHANGE 3</li> </ul> |
| Rudder Angle Indicator       | <ul style="list-style-type: none"> <li>- IMO Res.A.694(17)</li> <li>- IMO Res.MSC.36(63)-(1994 HSC Code) 13</li> <li>- IMO Res.MSC.97(73)-(2000 HSC Code) 13</li> <li>- IMO Res.MSC.191(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008)</li> <li>- IEC 61162 Series</li> <li>- IEC 62288 Ed 2.0(2014-07)</li> <li>- ISO 20673:2007</li> </ul> | UK/4.20   | <ul style="list-style-type: none"> <li>- USCG 165.167</li> <li>- NVIC 8- 01, CHANGE 3</li> </ul> |



| Product item identification    | Applicable international instruments for construction, performance and testing requirements  | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance  |
|--------------------------------|--|---|---|
| Propeller revolution indicator | <ul style="list-style-type: none"> <li>- IMO Res.A.694(17)</li> <li>- IMO Res.MSC.36(63)- (1994 HSC Code) 13</li> <li>- IMO Res.MSC.97(73)- (2000 HSC Code) 13</li> <li>- IMO Res.191(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008)</li> <li>- IEC 61162 Series</li> <li>- IEC 62288 Ed 2.0(2014-07)</li> <li>- ISO 22554:2015</li> </ul> | UK/4.21   | <ul style="list-style-type: none"> <li>- USCG 165.168</li> <li>- NVIC 8-01, CHANGE 3</li> </ul> |
| Pitch Indicator                | <ul style="list-style-type: none"> <li>- IMO Res.A.694(17)</li> <li>- IMO Res.MSC.36(63)- (1994 HSC Code) 13</li> <li>- IMO Res.MSC.97(73)- (2000 HSC Code) 13</li> <li>- IMO Res.191(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008)</li> <li>- IEC 61162 Series</li> <li>- IEC 62288 Ed 2.0(2014-07)</li> <li>- ISO 22555:2007</li> </ul> | UK/4.22   | <ul style="list-style-type: none"> <li>- USCG 165.169</li> <li>- NVIC 8-01, CHANGE 3</li> </ul> |



| Product item identification   | Applicable international instruments for construction, performance and testing requirements   | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance  |
|---|---|---|---|
| <p>Radar equipment CAT 1</p> <p>(Radar equipment used with ARPA must have separate EU and USA certifications)</p> | <ul style="list-style-type: none"> <li>- IMO Res. A.278(VIII)</li> <li>- IMO Res. A.694(17),</li> <li>- IMO Res. MSC.191(79)</li> <li>- IMO Res. MSC.192(79)</li> <li>- IMO Res. MSC.302(87)</li> <li>- ITU- R M. 1177-4(04/11)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008)</li> <li>- IEC 61162 Series</li> <li>- IEC 62288 Ed. 2.0 (2014-07)</li> <li>- IEC 62388 Ed. 2.0 (2013- 06)</li> </ul> | <p>UK/4.34</p>  | <ul style="list-style-type: none"> <li>- USCG 165.115</li> <li>- NVIC 8- 01, CHANGE 3</li> <li>- 47 CFR 80</li> <li>- 47 CFR 02.100</li> </ul> <p>Subpart B</p> <p>Note: USCG 165.120 has been changed to 165.115 to reflect changes required by MSC.192(79). Certificates previously issued remain valid for existing equipment.</p> |



| Product item identification  | Applicable international instruments for construction, performance and testing requirements   | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance  |
|--|---|---|---|
| <p>Radar equipment CAT 2</p> <p>(Radar equipment used with ATA must have separate EU and USA certifications)</p> | <ul style="list-style-type: none"> <li>- IMO Res. A.278(VIII)</li> <li>- IMO Res. A.694(17)</li> <li>- IMO Res. MSC.191(79)</li> <li>- IMO Res. MSC.192(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- ITU- R M. 1177-4(04/11)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008)</li> <li>- IEC 61162 Series</li> <li>- IEC 62288 Ed. 2.0 (2014-07)</li> <li>- IEC 62388 Ed. 2.0 (2013- 06)</li> </ul> | <p>UK/4.35</p>  | <ul style="list-style-type: none"> <li>- USCG 165.116</li> <li>- NVIC 8- 01, CHANGE 3</li> <li>- 47 CFR 80</li> <li>- 47 CFR 02.100</li> </ul> <p>Subpart B</p> <p>Note: USCG 165.111 has been changed to 165.116 to reflect changes required by MSC.192(79). Certificates previously issued remain valid for existing equipment.</p> |





| Product item identification  | Applicable international instruments for construction, performance and testing requirements  | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance  |
|--|--|---|---|
| <p>Radar equipment CAT 3</p> <p>(Radar equipment used with EPA must have separate EU and USA certifications)</p> | <ul style="list-style-type: none"> <li>- IMO Res. A.278(VIII)</li> <li>- IMO Res. A.694(17)</li> <li>- IMO Res. MSC.191(79)</li> <li>- IMO Res. MSC.192(79)</li> <li>- IMO Res. MSC.302(87)</li> <li>- ITU- R M. 1177-4(04/11)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008)</li> <li>- IEC 61162 Series</li> <li>- IEC 62288 Ed. 2.0 (2014-07)</li> <li>- IEC 62388 Ed. 2.0 (2013- 06)</li> </ul> | <p>UK/4.36</p>  | <ul style="list-style-type: none"> <li>- USCG 165.117</li> <li>- NVIC 8- 01, CHANGE 3</li> <li>- 47 CFR 80</li> <li>- 47 CFR 02.100</li> </ul> <p>Subpart B</p> <p>Note: USCG 165.121 has been changed to 165.117 to reflect changes required by MSC.192(79). Certificates previously issued remain valid for existing equipment.</p> |
|  |  |   |   |
| Integrated bridge system   | Deliberately left blank.   |   |   |



| Product item identification | Applicable international instruments for construction, performance and testing requirements  | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance   |
|-----------------------------|--|---|--|
| Voyage data recorder (VDR)  | <ul style="list-style-type: none"> <li>- IMO Res. A.694 (17)</li> <li>- IMO Res.MSC.36(63)-(1994 HSC Code) 13</li> <li>- IMO Res. MSC.97(73)-(2000 HSC Code) 13</li> <li>- IMO Res. MSC.191(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- IMO Res. MSC.333(90)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008)</li> <li>- IEC 61162 Series</li> <li>- IEC 61996- 1 Ed.2.0 (2013- 05) incl. IEC 61996- 1 Corr.1 (2014)</li> <li>- IEC 62288 Ed. 2.0 (2014- 07)</li> </ul> | UK/4.29   | <ul style="list-style-type: none"> <li>- USCG 165.150</li> <li>- NVIC 8- 01, CHANGE 3</li> </ul> |



| Product item identification   | Applicable international instruments for construction, performance and testing requirements   | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance   |
|---|---|---|--|
| Electronic chart display and information system (ECDIS) with backup, and raster chart display system (RCDS) | <ul style="list-style-type: none"> <li>- IMO Res.A.694(17)</li> <li>- IMO Res.MSC.36(63)-(1994 HSC Code) 13</li> <li>- IMO Res.MSC.97(73)-(2000 HSC Code) 13</li> <li>- IMO Res.MSC.191(79)</li> <li>- IMO Res.MSC.232(82)</li> <li>- IMO Res.MSC.302(87)</li> <li>- IMO MSC.1/Circ.1503. Rev.1</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008)</li> <li>- IEC 61162 Series</li> <li>- IEC 61174 Ed. 4.0 (2015)</li> <li>- IEC 62288 Ed. 2.0 (2014)</li> </ul> <p>[ECDIS back- up and RCDS are only applicable when this functionality is included in the ECDIS. The module B certificate shall indicate whether these options were tested]</p> | UK/4.30   | <ul style="list-style-type: none"> <li>- USCG 165.123</li> <li>- USCG 165.124 - NVIC 8-01, CHANGE 3</li> </ul> |



| Product item identification        | Applicable international instruments for construction, performance and testing requirements  | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance   |
|------------------------------------|--|---|--|
| Gyro compass for high- speed craft | <ul style="list-style-type: none"> <li>- IMO Res. A.694(17)</li> <li>- IMO Res. A.821(19)</li> <li>- IMO Res. MSC.36(63)- (1994 HSC Code) 13</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code) 13</li> <li>- IMO Res. MSC.191(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- IMO MSC.1/Circ. 1349</li> <li>- ISO 16328 (2014)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008)</li> <li>- IEC 61162 Series</li> <li>- IEC 62288 Ed. 2.0 (2014-07)</li> </ul> | UK/4.31   | <ul style="list-style-type: none"> <li>- USCG 165.203</li> <li>- NVIC 8- 01, CHANGE 3</li> </ul> |



|  |  |                |   |
|--|--|----------------|---|
| <p>Universal automatic identification system equipment (AIS)</p> | <ul style="list-style-type: none"> <li>- IMO Res. A.694 (17)</li> <li>- IMO Res. MSC.36(63)- (1994 HSC Code) 13</li> <li>- IMO Res. MSC.74(69)</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code) 13</li> <li>- IMO Res.MSC.191(79)</li> <li>- ITU- R M. 1371- 5(2014)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008)</li> <li>- IEC 61162 Series</li> <li>- IEC 61993-2(2012)</li> <li>- IEC 62288 Ed. 2.0 (2014-07)</li> </ul> | <p>UK/4.32</p> | <ul style="list-style-type: none"> <li>- USCG 165.155</li> <li>- NVIC 8- 01, CHANGE 3</li> <li>- ITU- R M. 1371- 3</li> </ul> |
|--|--|----------------|---|



| Product item identification  | Applicable international instruments for construction, performance and testing requirements  | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance   |
|--|--|---|--|
| Track control system (working at ship's speed from minimum manoeuvring speed up to 30 knots) | <ul style="list-style-type: none"> <li>- IMO Res. A.694(17)</li> <li>- IMO Res.MSC.74(69)</li> <li>- IMO Res.MSC.191(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008)</li> <li>- IEC 61162 Series</li> <li>- IEC 62065 Ed.2.0 (2014-02)</li> <li>- IEC 62288 Ed. 2.0 (2014- 07)</li> </ul>   | UK/4.33   | <ul style="list-style-type: none"> <li>- USCG 165.112</li> <li>- NVIC 8- 01, CHANGE 3</li> </ul>                         |
| Radar equipment for high speed craft applications (CAT 1H and CAT 2H)                        | <ul style="list-style-type: none"> <li>- IMO Res.A.278(VIII)</li> <li>- IMO Res.A.694(17)</li> <li>- IMO Res.MSC.36(63)- (1994 HSC Code) 13</li> <li>- IMO Res.MSC.97(73)- (2000 HSC Code) 13</li> <li>- IMO Res.MSC.191(79)</li> <li>- IMO Res.MSC.192(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- MSC.1/Circ.1349</li> <li>- ITU- R M.1177- 4 (04/11)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008)</li> <li>- IEC 61162 Series</li> <li>- IEC 62288 Ed.2.0(2014-07)</li> <li>- IEC 62388 Ed. 2.0(2013-06)</li> </ul> | UK/4.37   | <ul style="list-style-type: none"> <li>- USCG 165.216</li> <li>- USCG 165.217</li> <li>- NVIC 8- 01, CHANGE 3</li> </ul> |



| Product item identification  | Applicable international instruments for construction, performance and testing Requirements   | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance   |
|------------------------------|---|---|--|
| Radar reflector passive type | <ul style="list-style-type: none"> <li>- IMO Res. MSC.36(63)- (1994 HSC Code) 13</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code) 13</li> <li>- IMO Res.MSC.164(78)</li> <li>- ISO 8729- 1 (2010)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008)</li> </ul> | UK/4.39   | <ul style="list-style-type: none"> <li>- USCG 165.160</li> <li>- NVIC 8- 01, CHANGE 3</li> </ul> |



|   |   |         |  |
|---|---|---------|--|
| Heading control system for high speed craft | <ul style="list-style-type: none"> <li>- IMO Res.A.694(17)</li> <li>- IMO Res.A.822(19),</li> <li>- IMO Res.MSC.36(63)- (1994 HSC Code) 13</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code) 13</li> <li>- IMO Res.MSC.191(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- MSC.1/Circ.1349</li> <li>- ISO 16329 (2003)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008)</li> <li>- IEC 61162 series</li> <li>- IEC 62288 Ed. 2.0 (2014- 07)</li> </ul> | UK/4.40 | <ul style="list-style-type: none"> <li>- USCG 165.210</li> <li>- NVIC 8- 01, CHANGE 3</li> </ul> |
|---|---|---------|--|

| Product item identification                   | Applicable international instruments for construction, performance and testing requirements   | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance                   |
|---|---|---|--|
| Transmitting heading device THD (GNSS method) | <ul style="list-style-type: none"> <li>- IMO Res.A.694(17)</li> <li>- IMO Res.MSC.36(63)- (1994 HSC Code) 13</li> <li>- IMO Res.MSC.97(73)- (2000 HSC Code) 13</li> <li>- IMO Res.MSC.116(73)</li> <li>- IMO Res.MSC.191(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- ISO 22090-3:2014</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008)</li> <li>- IEC 61162 Series</li> <li>- IEC 62288 Ed.2.0(2014- 07)</li> </ul> | UK/4.41   | <ul style="list-style-type: none"> <li>- USCG 165.102</li> </ul> |





|   |   |         |   |
|---|---|---------|---|
| Searchlight for high speed craft            | <ul style="list-style-type: none"> <li>- IMO Res.A.694(17)</li> <li>- IMO Res.MSC.36(63)- (1994 HSC Code) 13</li> <li>- IMO Res.MSC.97(73)- (2000 HSC Code) 13</li> <li>- ISO 17884:2004</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008)</li> </ul>  | UK/4.42 | <ul style="list-style-type: none"> <li>- USCG 165.252</li> <li>- NVIC 8- 01, CHANGE 3</li> </ul>  |
| Night vision equipment for high speed craft | <ul style="list-style-type: none"> <li>- IMO Res.A.694(17)</li> <li>- IMO Res. MSC.36(63)- (1994 HSC Code) 13</li> <li>- IMO Res. MSC.94(72)</li> <li>- IMO Res. MSC.97(73)- (2000 HSC Code) 13</li> <li>- IMO Res. MSC.191(79)</li> <li>- ISO 16273 (2003)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008)</li> <li>- IEC 62288 Ed. 2.0 (2014- 07)</li> </ul> | UK/4.43 | <ul style="list-style-type: none"> <li>- USCG 165.251</li> <li>- NVIC 8- 01, CHANGE 3</li> <li>- ISO 60447</li> <li>- ISO / IEC 9126</li> </ul> |



| Product item identification                         | Applicable international instruments for construction, performance and testing requirements   | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance   |
|---|---|---|--|
| Transmitting heading device THD (Gyroscopic method) | <ul style="list-style-type: none"> <li>- IMO Res.A.694(17)</li> <li>- IMO Res.MSC.36(63)-(1994 HSC Code) 13</li> <li>- IMO Res.MSC.97(73)-(2000 HSC Code) 13</li> <li>- IMO Res.MSC.116(73)</li> <li>- IMO Res.MSC.191(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- ISO 22090- 1:2014</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008)</li> <li>- IEC 61162 Series</li> <li>- IEC 62288 Ed.2.0(2014-07)</li> </ul> | UK/4.46   | - USCG 165.102   |
| Simplified Voyage recorder (S-VDR) data             | <ul style="list-style-type: none"> <li>- IMO Res. A.694(17)</li> <li>- IMO Res. MSC.163(78)</li> <li>- IMO Res. MSC.191(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008)</li> <li>- IEC 61162 Series</li> <li>- IEC 61996-2(2007)</li> <li>- IEC 62288 Ed. 2.0(2014-07)</li> </ul>   | UK/4.47   | <ul style="list-style-type: none"> <li>- USCG 165.151</li> <li>- NVIC 8- 01, CHANGE 3</li> </ul> |



| Product item identification | Applicable international instruments for construction, performance and testing requirements  | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance  |
|-----------------------------|--|---|---|
| DGPS Equipment              | <ul style="list-style-type: none"> <li>- IMO Res.A.694(17)</li> <li>- IMO Res.MSC.36(63)-(1994 HSC Code) 13</li> <li>- IMO Res.MSC.97(73)-(2000 HSC Code) 13</li> <li>- IMO Res.MSC.112(73)</li> <li>- IMO Res.MSC.114(73)</li> <li>- IMO Res.MSC.191(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008)</li> <li>- IEC 61108-1 (2003)</li> <li>- IEC 61108-4 (2004)</li> <li>- IEC 61162 Series</li> <li>- IEC 62288 Ed.2.0 (2014-07)</li> </ul>       | UK/4.50   | <ul style="list-style-type: none"> <li>- USCG 165.132</li> <li>- NVIC 08-01 CHANGE 3</li> </ul> |
| DGLONASS Equipment          | <ul style="list-style-type: none"> <li>- IMO Res.A.694(17)</li> <li>- IMO Res.MSC.36(63)-(1994 HSC Code) 13</li> <li>- IMO Res.MSC.97(73)-(2000 HSC Code) 13</li> <li>- IMO Res.MSC.113(73)</li> <li>- IMO Res.MSC.114(73)</li> <li>- IMO Res.MSC.191(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008)</li> <li>- IEC 61108-2 Ed.1.0 (1998)</li> <li>- IEC 61108-4 (2004)</li> <li>- IEC 61162 Series</li> <li>- IEC 62288 Ed.2.0(2014-07)</li> </ul> | UK/4.51   | <ul style="list-style-type: none"> <li>- USCG 165.133</li> <li>- NVIC 08-01 CHANGE 3</li> </ul> |



| Product item identification                    | Applicable international instruments for construction, performance and testing requirements   | UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended | US technical regulations and approval guidance   |
|--|---|---|--|
| Daylight signalling lamp                       | <ul style="list-style-type: none"> <li>- IMO Res.A.694(17)</li> <li>- IMO Res.MSC.36(63)-(1994 HSC Code)</li> <li>- IMO Res.MSC.95(72)</li> <li>- IMO Res.MSC.97(73)-(2000 HSC Code)</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008)</li> <li>- ISO 25861:2007</li> </ul>  | UK/4.52   | <ul style="list-style-type: none"> <li>- USCG 165.166</li> <li>- NVIC 08-01 CHANGE 3</li> </ul>  |
| Bridge Navigational Watch Alarm System (BNWAS) | <ul style="list-style-type: none"> <li>- IMO Res.A.694(17)</li> <li>- IMO Res.MSC.128(75)</li> <li>- IMO Res.MSC.191(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- MSC.1/Circ.1474</li> <li>- IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008)</li> <li>- IEC 61162 Series</li> <li>- IEC 62288 Ed.2.0(2014-07)</li> <li>- IEC 62616(2010) incl. IEC 62616 Corr. 1 (2012)</li> </ul> | UK/4.57   | <ul style="list-style-type: none"> <li>- USCG 165.142</li> <li>- NVIC 08-01, CHANGE 3</li> </ul> |



|                               |   |                |  |
|-------------------------------|---|----------------|--|
| <p>Sound reception system</p> | <ul style="list-style-type: none"> <li>- IMO Res.A.694(17)</li> <li>- IMO Res.MSC.36(63)-<br/>(1994 HSC Code)</li> <li>- IMO Res.MSC.86(70)</li> <li>- IMO Res.MSC.97(73)-<br/>(2000 HSC Code)</li> <li>- IMO Res.MSC.191(79)</li> <li>- IMO Res.MSC.302(87)</li> <li>- IEC 60945 (2002) incl.<br/>IEC 60945 Corr. 1 (2008)</li> <li>- IEC 61162 Series</li> <li>- IEC 62288 Ed.2.0 (2014-<br/>07)</li> <li>- ISO 14859:2012</li> </ul> | <p>UK/4.58</p> | <ul style="list-style-type: none"> <li>- USCG<br/>165.165 - NVIC 8-<br/>01<br/>CHANGE 3</li> </ul> |
|-------------------------------|---|----------------|--|

