

標題

IMSBC コード改正に伴う鑑定実施要領の改訂について

ClassNK

テクニカル インフォメーション

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各位

IMSBC コードの改正に伴い、適合鑑定実施要領を改訂しましたのでお知らせ致します。
本 ClassNK テクニカル・インフォメーション発行をもちまして、2009年5月21日発行の Class NK テクニカル・インフォメーション No.TEC-0772 を絶版といたします。
なお、本テクニカル・インフォメーションにおいて、IMSBCコード(2009Edition)とは現行IMSBCコードとし、IMSBCコード(2012Edition)とは改正IMSBCコードとします。
改訂の概要は次の通りです。

1. IMSBC コードの改正

第 89 回海上安全委員会(MSC89)において、個々の貨物に対する要件を見直した改正 IMSBC コード"IMSBCコード(2012Edition)"が採択されました。

IMSBCコード(2012Edition)は、2013年1月1日以降固体貨物をばら積みする全ての船舶に対して、強制適用となります。

2. 適合鑑定実施要領

適合鑑定書実施要領は添付「IMSBCコード適合鑑定実施要領」をご参照ください。

3. 構造・設備要件が追加となった貨物

IMSBCコード(2012Edition)適合鑑定書を発行する上で、構造・設備要件がIMSBCコード(2009Edition)時の要件から追加された貨物がありますのでご注意ください。構造・設備要件が追加された貨物につきましては、添付「Table G1-構造・設備要件が追加された貨物」をご参照下さい。

(次頁に続く)

NOTES:

- ClassNK テクニカル・インフォメーションは、あくまで最新情報の提供のみを目的として発行しています。
- ClassNK 及びその役員、職員、代理もしくは委託事業者のいずれも、掲載情報の正確性及びその情報の利用あるいは依存により発生する、いかなる損失及び費用についても責任は負いかねます。
- バックナンバーは ClassNK インターネット・ホームページ(URL: www.classnk.or.jp)においてご覧いただけます。

4. WOOD PRODUCTS - GENERAL

添付「Table G1 -構造・設備要件が追加された貨物」の WOOD PRODUCTS - GENERAL については、LOGS、PULP WOOD、TIMBER、ROUNDWOOD 及び SAW LOGS が含まれております。それらの貨物は、添付「MSC.1/Circ.1395(MSC/Circ.1146 の改正)」の表 1「固定式ガス消火装置が免除される固体ばら積み貨物リスト」に記載されている為、固定式ガス消火装置が免除されている船舶であっても、積載が可能となります。ただし、本船上に保管されている固定式ガス消火装置免除証書にそれらの貨物が記載されていない場合には、当該証書は書換えが必要となりますので、ご注意ください。

5. 固定式ガス消火装置免除証書の書換え

上記4.の通り、WOOD PRODUCTS - GENERAL 積載の際には、固定式ガス消火装置免除証書の書換えが必要となる場合があります。

- (1) 弊会発行の本免除証書をお持ちの場合、又はパナマ籍船及びリベリア籍船の場合の書換えの手順を以下(i)又は(ii)に示します。

なお、パナマ籍船の場合は、弊会において仮免除証書発行後、船主又は管理会社から直接パナマ政府への本免除証書発行の手続きが必要となります。

また、リベリア籍船の場合は、弊会において仮免除証書発行後、弊会よりリベリア政府へ本免除証書発行の申請を行います。

- (i) 検査を実施する場合*

弊会検査担当支部・事務所へ書換える旨の申込書をご提出ください。(IMSBC コード(2012Editoin)適合鑑定書の発行の必要な場合には合わせてお申込み下さい。)

- (ii) 検査を実施しない場合*

弊会材料艀装部へ書換える旨の申込書をご提出ください。(IMSBC コード(2012Editoin)適合鑑定書の発行の必要な場合には合わせてご申込下さい。)

*: 「検査を実施する場合」とは、WOOD PRODUCTS - GENERAL を追加して IMSBC コード(2012Editoin)適合鑑定書を発行する為に、検査を実施する場合を言います。「検査を実施しない場合」とは、その他の場合を言います。

- (2) パナマ籍船及びリベリア籍船以外の主管庁発行の本免除証書をお持ちの場合は、直接旗国にご申請いただく必要があります。

6. WOODCHIPS 及び WOOD PELLETS を含む IMSBC コード適合鑑定書

添付「Table G1-構造・設備要件が追加された貨物」の通り、WOODCHIPS 及び WOOD PELLETS を含む IMSBC コード適合鑑定書を所持し、且つ 2013 年 1 月 1 日以降当該貨物を積載する場合には、追加の予備のボトル 200%を含む 2 組の自蔵式呼吸具の設置が要求されます。追加の自蔵式呼吸具が設置されていない船舶にあつては、2012 年 12 月 31 日までに追加の自蔵式呼吸具の設置をお願いいたします。2013 年 1 月 1 日以降最初の定期的検査時に、弊会検査員が確認を行います。

(次頁に続く)

7. 2013年1月1日以降の既存のIMSBCコード適合鑑定書の取扱い

これまでに、弊会より発行されているIMSBCコード適合鑑定書は、IMSBC(2009 Edition)に従って発行されております。

IMSBCコード(2012 Edition)が強制適用となる2013年1月1日以降の既存のIMSBCコード適合鑑定書については以下の通りとなります。

- (1) Table G1 以外の貨物については、構造・設備要件の変更がない。従って、Table G1 以外の貨物のみが記載される既存のIMSBCコード適合鑑定書は、2013年1月1日以降であっても当該貨物を積載する為に有効な鑑定書であり、鑑定書の書換えは必要としない。
- (2) Table G1 に記載される Group A 及び C 貨物については、構造・設備要件がない為、既存のIMSBCコード適合鑑定書に記載される"All materials of Group A and Group C"に含まれるものとする。従って、"All materials of Group A and Group C"が記載される既存のIMSBCコード適合鑑定書は、2013年1月1日以降であってもTable G1 に記載される Group A 及び C 貨物を積載する為に有効な鑑定書であり、鑑定書の書換えは必要としない。
- (3) Table G1 に記載される WOODCHIPS 及び WOOD PELLETS については、追加の自蔵式呼吸具の設置が要求される。追加の自蔵式呼吸具の設置が既に確認されている場合には、WOODCHIPS 及び WOOD PELLETS が記載される既存のIMSBCコード適合鑑定書は、2013年1月1日以降であっても、WOODCHIPS 及び WOOD PELLETS を積載する為に有効な鑑定書であり、鑑定書の書換えは必要としない。

なお、本件に関してご不明な点は、以下の部署にお問い合わせください。

[IMSBCコード適合鑑定書、その他関連のお問い合わせ]

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[固定式ガス消火装置免除証書についてのお問い合わせ]

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添付:

1. Table G1-構造・設備要件が追加された貨物
2. IMSBCコード適合鑑定書実施要領
3. 表1「固定式ガス消火装置が免除される固体ばら積み貨物リスト」- MSC.1/Circ.1395

Table G1 -構造・設備要件が追加された貨物 (追加・削除された貨物を含む)

改正箇所を赤字で示す

| a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q | r | s | t | u | v |
|---------------------------------------|-----------|--------|-------|---------|-----------------|-------------|------|---------------------|------------|--|----------------------|-----------------|-----------------------------|-----------------|--|------------------------|---------------|---------------------|----------------------|-----------------|--------------------------------|
| MATERIALS | IMO class | UN No. | Group | Stowage | NO SMOKING sign | Ventilation | SCBA | Protective clothing | Bilge line | Explosion protected electrical equipment | Dual purpose nozzles | 4 jets of water | SOLAS Reg.II-2/54.2 or 19.3 | | | | | | | | FFEA (SOLAS Reg.II-2/10.7.1.3) |
| | | | | | | | | | | | | | Remote control of fire pump | 4 jets of water | Explosion protected electrical equipment | Mechanical ventilation | Safe type fan | Natural ventilation | Personnel protection | A-60 insulation | |
| DISTILLERS DRIED GRAINS WITH SOLUBLES | | | C | | | | | | | | | | | | | | | | | | |
| FERROUS SULPHATE HEPTAHYDRATE | | | C | | | | | | | | | | | | | | | | | | |
| FLY ASH, DRY | | | C | | | | | | | | | | | | | | | | | | |
| FLY ASH, WET | | | A | | | | | | | | | | | | | | | | | | |
| GRANULAR FERROUS SULPHATE | | | C | | | | | | | | | | | | | | | | | | |
| MAGNESIUM SULPHATE FERTILIZERS | | | C | | | | | | | | | | | | | | | | | | |
| WOODCHIPS | MHB | | B | | | | Yes | | | | | | | | | | | | | | Yes ⁷ |
| WOOD PELLETS | MHB | | B | | | | Yes | | | | | | | | | | | | | | Yes |
| WOOD PRODUCTS - GENERAL | MHB | | B | | | Nm | Yes | | | | | | | | | | | | | | |
| WOOD PULP PELLETS | MHB | | B | | | | | | | | | | | | | | | | | | Yes ⁷ |

IMSBC コード適合鑑定実施要領

0101 一般

IMSBC コードでは、貨物は、液化化することのあるばら積み物質 (Group A)、化学的危険性を有するばら積み物質 (Group B) 及び前者のいずれにも該当しないばら積み物質 (Group C) に分類されている。本要領では、それらを各々「Group A 貨物」、「Group B 貨物」及び「Group C 貨物」と呼ぶ。

0102 構造・設備の要件

- 1. 運送貨物の種類に拘わらず、ローディングマニュアル及び復原性資料の備付けが要求される。
- 2. Group A 貨物について含水量の制限を条件としない場合は、原則貨物の移動を制限するための可搬式隔壁または固定式縦通隔壁が要求される。
- 3. COAL 及び BROWN COAL BRIQUETTES 以外の貨物の要件については、Table 1.1 及び Table 1.2 にその概要が示されている。COAL 及び BROWN COAL BRIQUETTES については Table 1.3 に掲げる設備が要求される。

注 2.1 同コードには消防及び人身保護のための構造・設備の他、オペレーションに関する注意及び各貨物の性状に関する情報が掲載されている。

注 2.2 Table 1.1 には、便宜のために改正 SOLAS74 の関係要件(危険物の運送)の概要も一緒に示されている。

0103 申込み

- 1. 申込者(船舶所有者若しくはその代理者または船舶建造者)は、少なくとも次の事項を記載した申込書を、船上検査に先立ち、弊社支部・事務所または材料艀装部(本部)に提出する。(0104 参照)
 - (1) 対象貨物
 - (2) 受検予定日及び場所並びに現地代理店(就航船の場合)
 - (3) 提出書類のリスト(申込書と一緒に提出されるもののリスト及び別途提出されるもののリスト)
- 2. 対象貨物に危険物が含まれている場合、申込者は必要に応じて危険物運送適合証書発行(船級検査及び条約検査)も申し込む。
- 3. 上記-2.の場合の他、船級要件に関わる改造、変更等が行われる場合、申込者は船級検査も申し込む。

0104 書類の提出

- 1. 対象貨物に Group B 貨物が含まれている場合、申込者は Table 1.4 (COAL 及び BROWN COAL BRIQUETTES 以外) 及び/または Table 1.5 (COAL 及び BROWN COAL BRIQUETTES) に掲げる書類各 1 部を弊社支部・事務所または本部に提出する。ただし、就航船の場合であって、特定の構造・設備について、要件への適合の確認が船上検査のみにより行えると検査員が判断する場合、書類の提出・審査を省略して差し支えない。
- 2. 対象貨物に含水量の制限を条件としない Group A 貨物が含まれている場合、申込者は関連の船体構造図、復原性計算書及びその他弊社が必要と認める書類を本部に各 1 部提出する。

0105 書類審査、船上検査及び鑑定書の発行

- 1. 対象貨物に Group B 貨物を含まない場合、次の(1)による。
 - (1) 弊会本部における書類審査は必要としない。弊会支部・事務所は、鑑定書及びチェックリスト(適用要件がある場合)を作成する。ただし、
 - (a) Group A 貨物の運送について含水量の制限を条件としない場合、本部での図面審査が必要となる。
 - (b) 船舶の長さが 100m (1998 年 7 月 1 日以降建造契約の船舶にあつては 65m) 未満の場合であっても、各貨物倉に積載される貨物の許容最大比重及び縦強度に関する情報を含む適当なローディングマニュアルを船上に備え付ける必要がある。
- 2. 対象貨物に Group B 貨物として COAL 及び/又は BROWN COAL BRIQUETTES のみを含む場合、次の(1)及び(2)による。
 - (1) 弊会本部における書類審査は必要としない。弊会支部・事務所は、鑑定書及びチェックリストを作成する。
 - (2) Table 1.5 に掲げられた書類を、必要に応じ、審査の上、船上検査を行う。
- 3. 対象貨物に Group B 貨物を含む場合 (Group B 貨物が COAL 及び/又は BROWN COAL BRIQUETTES のみの場合を除く)、次の(1)及び(2)による。
 - (1) 弊会本部における書類審査が必要となる。本部は Table 1.4 に掲げられた書類を、必要に応じ、審査の上、弊会支部・事務所へ適切な指示を行う。
 - (2) 弊会支部・事務所は、本部からの指示に従い、船上検査を行う。
- 4. IMSBC コード適合鑑定書を所持している船舶にあつては、2013 年 1 月 1 日以降最初の定期的検査時に次の(1)及び(2)の項目を確認する。
 - (1) Table G1 の WOODCHIPS、WOOD PELLETS 及び WOOD PRODUCTS - GENEAL が含まれる場合
WOODCHIPS、WOOD PELLETS 及び WOOD PRODUCTS - GENEAL が記載される鑑定書にあつては、当該船舶が Table G1 に記載される要件に適合していることを確認する。
 - (2) WOOD PULP PELLETS が含まれる場合
Table G1 に記載される WOOD PULP PELLETS は、IMSBC コード(2012 Edition)において削除された貨物である為、当該貨物は鑑定書上より、適宜削除する。

| a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q | r | s | t | u | v | |
|---|-----------|--------|---------|---------|-----------------|-------------|------|---------------------|------------|--|----------------------|-----------------|-----------------------------|-----------------|--|------------------------|---------------|---------------------|----------------------|-----------------|--------------------------------|------------------|
| MATERIALS | IMO class | UN No. | Group | Stowage | NO SMOKING sign | Ventilation | SCBA | Protective clothing | Bilge line | Explosion protected electrical equipment | Dual purpose nozzles | 4 jets of water | SOLAS Reg.II-2/54.2 or 19.3 | | | | | | | | FFEA (SOLAS Reg.II-2/10.7.1.3) | |
| | | | | | | | | | | | | | Remote control of fire pump | 4 jets of water | Explosion protected electrical equipment | Mechanical ventilation | Safe type fan | Natural ventilation | Personnel protection | A-60 insulation | | |
| CHOPPED RUBBER AND PLASTIC INSULATION | | | C | | | | | | | | | | | | | | | | | | Yes ² | |
| CHROME PELLETS | | | C | | | | | | | | | | | | | | | | | | | |
| CHROMITE ORE | | | C | | | | | | | | | | | | | | | | | | | |
| CLAY | | | C | | | | | | | | | | | | | | | | | | | |
| COAL | MHB | | A and B | | | | | | | | | | | | | | | | | | | |
| COAL SLURRY | | | A | | | N | | | | | | | | | | | | | | | | |
| COARSE CHOPPED TYRES | | | C | | | | | | | | | | | | | | | | | | | Yes ² |
| COKE | | | C | | | | | | | | | | | | | | | | | | | |
| COKE BREEZE | | | A | | | | | | | | | | | | | | | | | | | |
| COLEMANITE | | | C | | | | | | | | | | | | | | | | | | | |
| COPPER CONCENTRATE | | | A | | | | | | | | | | | | | | | | | | | |
| COPPER GRANULES | | | C | | | | | | | | | | | | | | | | | | | |
| COPPER MATTE | | | C | | | | | | | | | | | | | | | | | | | |
| COPRA (dry) | 4.2 | 1363 | B | A | Yes | Nm | | | | | | | X | X | | | | X | X | X | | Yes |
| CRYOLITE | | | C | | | | | | | | | | | | | | | | | | | |
| DIAMMONIUM PHOSPHATE (D.A.P.) | | | C | | | | | | | | | | | | | | | | | | | |
| DIRECT REDUCED IRON, (A) Briquettes, hot-moulded | MHB | | B | F | Yes | Nm, Sp | | | | IICT2 | | | | | | | | | | | | |
| DIRECT REDUCED IRON, (B) Lumps, pellets, cold moulded briquettes 3 | MHB | | B | F | Yes | | | | | IICT2 | | | | | | | | | | | | Yes |
| DIRECT REDUCED IRON, (C) (By product fines) 3 | MHB | | B | F | Yes | | Yes | | | IICT2 | | | | | | | | | | | | Yes |
| DOLOMITE | | | C | | | | | | | | | | | | | | | | | | | |
| <u>DISTILLERS DRIED GRAINS WITH SOLUBLES</u> | | | C | | | | | | | | | | | | | | | | | | | |
| FELSPAR LUMP | | | C | | | | | | | | | | | | | | | | | | | |
| FERROCHROME | | | C | | | | | | | | | | | | | | | | | | | |
| FERROCHROME, exothermic | | | C | | | | | | | | | | | | | | | | | | | |
| FERROMANGANESE | | | C | | | | | | | | | | | | | | | | | | | |
| FERRONICKEL | | | C | | | | | | | | | | | | | | | | | | | |
| FERROPHOSPHORUS (including briquettes) | MHB | | B | | | ML,Sa | Yes | | | IICT1 | | | | | | | | | | | | |
| FERROSILICON with 30% or more but less than 90% silicon (including briquettes) | 4.3 | 1408 | B | A, G | Yes | ML,Sa | Yes | Yes | F,N | IICT1 | | | | X | X | X | X | X | X | X | | |
| FERROSILICON 25% to 30% silicon, or 90% or more with silicon (including briquettes) | MHB | | B | G | Yes | ML,Sa | Yes | | F,N | IICT1 | | | | | | | | | | | | |
| FERROUS METAL BORINGS, SHAVINGS, TURNINGS or CUTTINGS | 4.2 | 2793 | B | A | Yes | | Yes | | | | | | X | X | | | | X | X | X | | Yes |

The contents of each column in the Table 2.1 are as follows.

1. MATERIALS (column "a")
Bulk Cargo Shipping Names are expressed in capital letters and identifies a bulk cargo during transport by sea.
2. IMO class (column "b")
Group B cargoes are categorized into the following classes.
 - Class 4.1 : Flammable solids
 - Class 4.2 : Substances liable to spontaneous combustion
 - Class 4.3 : Substances which, in contact with water, emit flammable gases
 - Class 5.1 : Oxidizing substances (agents)
 - Class 7 : Radioactive materials
 - Class 9 : Miscellaneous dangerous substances and articles
 - MHB : Materials which may possess chemical hazards when transported in bulk other than materials classified as dangerous goods in the IMDG Code.
3. UN No. (column "c")
This is a 4-digit number assigned to a particular dangerous substance included in the dangerous substance list (approximately 3,000 items) within the United Nations Recommendations on the Transport of Dangerous Goods issued by the United Nations Committee of Experts on the Transport of Dangerous Goods.
4. Group (column "d")
 - A : Group A consists of cargoes which may liquefy if shipped at moisture content in excess of their transportable moisture limit.
 - B : Group B consists of cargoes which possess a chemical hazard which could give rise to a dangerous situation on a ship.
 - C : Group C consists of cargoes which are neither liable to liquefy (Group A) nor to possess chemical hazards (Group B).
5. Stowage (column "e")
 - A : Bulkheads to the engine room are to be insulated to A-60 standard.
 - F : Boundaries of components are to be resistant to fire and passage of water.
 - G : Bulkheads to the engine room are to be of gastight.
6. NO SMOKING sign (column "f")
Yes : "NO SMOKING" signs are to be posted on decks and in areas adjacent to cargo compartments.
7. Ventilation (column "g")
 - N : Natural ventilation system is to be provided for cargo holds.
 - Nm : Natural or mechanical ventilation system is to be provided for cargo holds.
 - M : Mechanical ventilation system is to be provided for cargo holds.
 - ML : At least two mechanical ventilation fans are to be provided for cargo holds. The total ventilation is to be at least six air changes per hour. Ventilation openings are to comply with the requirements of the Load Line Convention as amended for openings not fitted with means of closure.
 - Sa : Ventilation fans are to be safe for use in a flammable atmosphere.
 - Sp : Spark-arresting screens (wire mesh guards with max. 13mm X 13mm) are to be fitted to ventilation openings.
8. SCBA (column "h")
Yes : Two self contained breathing apparatuses with 200% spare cylinders are to be additionally provided.
9. Protective clothing resistant to chemical attack (column "i")
Yes : Four sets of protective clothing which consists of a pair of gloves, boots, a protective clothing and helmet with goggles are to be additionally provided.

10. Bilge line (column “j”)
 F : In case where bilge lines are led to machinery space, bilge line is to be isolated either by fitting a blank flange or by a closed lockable valve.
 N : A notice is to be placed adjacent to the valve warning against opening without the master’s permission.
11. Electrical equipment (column “k”)
 Not suitable explosion protected type electrical equipment are to be disconnected (by removal of links in the system, other than fuses) from the power source at a point external to the space.
 IIAT2: Electrical equipment having an explosion protection grade of IIAT2 or upwards are considered as suitable explosion protected type electrical equipment.
 IIAT3: Electrical equipment having an explosion protection grade of IIAT3 or upwards are considered as suitable explosion protected type electrical equipment.
 IIAT4: Electrical equipment having an explosion protection grade of IIAT4 or upwards are considered as suitable explosion protected type electrical equipment.
 IICT1: Electrical equipment having an explosion protection grade of IICT1 or upwards are considered as suitable explosion protected type electrical equipment.
 IICT2: Electrical equipment having an explosion protection grade of IICT2 or upwards are considered as suitable explosion protected type electrical equipment.
 IS: Intrinsically safe type electrical equipment are considered as suitable explosion protected type electrical equipment.
12. Dual purpose nozzles (column “l”)
 Yes : Nozzles provided with fire hoses are to be of dual-purpose type (i.e., spray/jet type).
13. 4 jets of water (column “m”)
 Yes : The quantity of water delivered is to be capable of supplying four nozzles at pressure as specified in SOLAS regulation and being trained on any part of the cargo space when empty.
14. Requirements of SOLAS Reg.II-2/54.2 (Reg.II-2/19.3 on or after 2000 amendments) (column “n” ~ “u”)
 X : Applicable.
15. FFEA (SOLAS Reg.II-2/10.7.1.3) (column “v”)
 Yes : Fixed CO2 fire extinguishing system for cargo holds are required by SOLAS Reg.II-2/10.7.1.3.
 (Yes): Fixed gas fire-extinguishing system is ineffective and for which a fixed fire-extinguishing system giving equivalent protection shall be available. According to the Unified Interpretation of IMO, water supplies defined in SOLAS Reg.II-2/19.3.1.2 are considered as the alternative of a fixed gas fire-extinguishing system in cargo spaces.

General notes:

- For the detailed requirements of the IMSBC Code, the relevant part of the Code should be referred to.
- The application of the requirements of SOLAS Reg.II-2/54.2 or 19.3 is shown just for ready reference. For the detailed requirements, the relevant part of the SOLAS should be referred to.
- Blank columns mean “Not applicable”.

- Notes : 1. CASTER MEAL, CASTER POMACE and CASTER FLAKE shall not be carried in bulk.
 2. For the planned voyage not exceeding 5 days from the commencement of loading to the completion of discharge, the vessel may be exempted from the requirements of FFEA.
 3. Consideration shall be given to providing the vessel with the means to top up the cargo spaces with additional supplies of inert gas taking into account the duration of the voyage. The ship’s fixed CO2 fire extinguishing system shall not be used for this purpose.
 4. Only applicable to Industrial sand coated with resin.
 5. Only applicable to Seedcake containing solvent extractions only.
 6. Fine grained sulphur (flowers of sulphur) shall not be transported in bulk.
 7. With moisture content of 15% or more, the vessel may be exempted from the requirements of FFEA.
 8. Only suitable wire mesh guards are required.

Table 1.2

**IMSBC Code - Initial Checklist
(for cargoes other than COAL and BROWN COAL BRIQUETTES)**

| Column of Table 1.1 | Requirements | Result |
|---------------------|--|--------------------------|
| e | Stowage: <input type="checkbox"/> Bulkheads to the engine room are to be insulated to A-60 standard. <input type="checkbox"/> Boundaries of components are to be resistant to fire and passage of water. <input type="checkbox"/> Bulkheads to the engine room are to be of gastight. | <input type="checkbox"/> |
| f | NO SMOKING sign: <input type="checkbox"/> "NO SMOKING" signs are to be posted on decks and in areas adjacent to cargo compartment. | <input type="checkbox"/> |
| g | Ventilation: <input type="checkbox"/> Natural ventilation systems are to be provided for cargo holds. <input type="checkbox"/> Natural or mechanical ventilation systems are to be provided for cargo holds. <input type="checkbox"/> Mechanical ventilation systems are to be provided for cargo holds. <input type="checkbox"/> At least two mechanical ventilation fans are to be provided for cargo holds. The total ventilation are to be at least six air changes per hour. Ventilation openings are to comply with the requirements of the Load Line Convention as amended for openings not fitted with means of closure. <input type="checkbox"/> Ventilation fans are to be safe for use in a flammable atmosphere. <input type="checkbox"/> Spark-arresting screens (wire mesh guards with max. 13mm×13mm) are to be fitted to ventilation openings. | <input type="checkbox"/> |
| h | SCBA: <input type="checkbox"/> Two self contained breathing apparatuses with 200% spare cylinders are to be additionally provided. | <input type="checkbox"/> |
| i | Protective clothing resistant to chemical attack: <input type="checkbox"/> Four sets of protective clothing which consists of boots, gloves, coverall and headgear are to be additionally provided. | <input type="checkbox"/> |
| j | Bilge line: <input type="checkbox"/> In case where bilge lines are led to machinery space, bilge lines are to be isolated either by fitting a blank flange or by a closed lockable valve. <input type="checkbox"/> A notice is to be placed adjacent to the valve warning against opening without the master's permission. | <input type="checkbox"/> |
| k | Electrical equipment: <input type="checkbox"/> Electrical equipment fitted in the cargo holds, including motors of mechanical ventilation systems, are to be of safe type having an explosion protection grade/type stated below or upwards. Not suitable explosion protected type electrical equipment are to be capable of being positively isolated from outside of the spaces. (<input type="checkbox"/> IIAT2 / <input type="checkbox"/> IIAT3 / <input type="checkbox"/> IIAT4 / <input type="checkbox"/> IICT1 / <input type="checkbox"/> IICT2 / <input type="checkbox"/> IICT3 / <input type="checkbox"/> IICT4 / <input type="checkbox"/> Intrinsically safe type) | <input type="checkbox"/> |
| l | Dual purpose nozzles <input type="checkbox"/> Nozzles provided with fire hoses are to be of dual-purpose type (i.e., spray/jet type). | <input type="checkbox"/> |
| m | 4 jets of water <input type="checkbox"/> The quantity of water delivered is to be capable of supplying four nozzles at pressure as specified in SOLAS regulation and being trained on any part of the cargo space when empty. | <input type="checkbox"/> |

- Note: 1. The requirements checked are applied to the vessel.
 2. The results of confirmation survey on board have been shown in the right columns. For the requirements complied with, the columns should be checked. For the requirements not applied, "NA" should be entered in the columns.

Ship's name :
 Class number :
 Date :

Signature: _____

Table 1.3

**IMSBC Code - Initial Checklist
(for COAL and BROWN COAL BRIQUETTES)**

| | | |
|------|---|--------------------------|
| 1 | Boundaries of cargo spaces are to be resistant to fire and liquids. | <input type="checkbox"/> |
| 2 | Electrical equipment fitted in the cargo holds are to be of safe type having an explosion protection grade of IIAT4 or upwards. Not suitable explosion protected type electrical equipment are to be capable of being positively isolated from outside of the spaces and have the enclosure having a protection degree of IP55 or upwards, and caution plates to ensure isolation of electrical equipment are to be provided. | <input type="checkbox"/> |
| 3 | Suitable means for measuring following gases, etc. in cargo spaces without entry into such spaces are to be provided. Methane Oxygen Carbon monoxide pH value Temperature(0 - 100°C) | <input type="checkbox"/> |
| 4(*) | Two sets of self-contained breathing apparatus are to be provided. (Note: The apparatus required by SOLAS Reg.II-2/17(00E) or Reg.II-2/10(00N) may be used for this purpose) | <input type="checkbox"/> |
| 5 | "No Smoking" signs are to be posted in conspicuous places. | <input type="checkbox"/> |
| 6(*) | Natural ventilation system is to be provided for cargo spaces and air holes should be provided at the upper part of web plates of longitudinal and transverse girders fitted to deck plates with appropriate spacing. Note: Air holes should not be located at any part that may be subject to stress concentration. | <input type="checkbox"/> |
| 7 | Natural or mechanical ventilation systems are to be provided for adjacent enclosed working spaces, such as store rooms, carpenter's shops, passage ways, tunnels. In the case of mechanical ventilation, only the equipment which is safe type for use in an explosive atmosphere can be used in cargo area. | <input type="checkbox"/> |
| 8 | Two sampling holes per hold, one on the port side and one on the starboard side of the hatch cover or upper parts of hatch coamings are to be provided with threaded stub and sealing cap. | <input type="checkbox"/> |

Note: 1. The items marked with (*) are not applicable to brown coal (lignite) briquettes.
2. The results of confirmation survey on board have been shown in the right columns. For the requirements complied with, the columns should be checked. For the requirements not applied, "NA" should be entered in the columns.

Ship's name :

Class number :

Date :

Signature: _____

Table 1.4

Documents/information to be submitted

| | | Required items (1) Column of Table 2.2 (2) Regulation of SOLAS II-2/54 (II-2/19) | Documents/information to be submitted The meanings of "H" and "L" are specified under this table. | |
|-----|------------------|--|--|--|
| (1) | (2) | | | |
| e | 2.8 (3.8) | "A-60" class insulation of bulkheads between the cargo space and engine room | H | Drawings of fire protection construction Type and manufacture of the material |
| f | -- | "NO SMOKING" signs | L | Number and locations of the signs |
| g | -- | Natural ventilation. | H | Drawings of the system |
| | 2.4.3 (3.4.3) | Natural or mechanical ventilation. | | |
| | -- | Mechanical ventilation | H | Drawings of the system Calculations of the air changes |
| | 2.4.1 (3.4.1) | Mechanical ventilation (total ventilation at least six air changes per hour) | | |
| | 2.4.2 (3.4.2) | Non-sparking fans Spark-arresting screens (wire mesh guard) | | |
| h | 2.6.2 (3.6.2) | Self-contained breathing apparatus | L | Type, manufacturer and specifications |
| i | 2.6.1 (3.6.1) | Protective clothing resistant to chemicals | | |
| j | -- | Stop valves and blank flanges on the bilge lines on machinery space side | H | Drawing of bilge lines |
| k | 2.2 (3.2) | Electrical equipment to be of safe type. | H | Arrangement and wiring diagram of electrical equipment fitted in the space including grade of each equipment, such as IAT4. |
| l | - | Jet/spray dual purpose type nozzle | L | Type, manufacturer and specifications |
| m | 2.1.2 (3.1.2) | Capacity of fire pumps to supply four nozzles | H | Fire main piping diagram with arrangement of hydrant and pump capacity. |

H: To be submitted to Material and Equipment department for examination by the Head office.

L: To be submitted to the local office for their checking.

Table 1.5

Documents/information to be submitted for COAL/BROWN COAL BRIQUETTES

| Requirements on Table 2.3 | Documents/information to be submitted The meaning of "L" is specified under this table | |
|---|---|--|
| Boundaries of cargo spaces should be resistant to fire and liquids. | — | — |
| Electrical cables and components situated in cargo spaces and adjacent spaces should be free from defects and safe for use in explosive atmosphere or positively isolated. | L | Arrangement and wiring diagram of electrical equipment fitted in the space including grade of each equipment, such as IIAT4. |
| Appropriate instruments for measuring followings into cargo spaces without entry into such spaces should be provided. Methane Oxygen Carbon monoxide pH value Temperature(0 - 100°C) | L | Type, manufacturer and specifications |
| Two sets of self-contained breathing apparatus to be provided. | L | Type, manufacturer and specifications |
| "No Smoking" sign and "No naked flames" sign should be posted in conspicuous places. | L | Number and locations of the signs |
| Natural surface ventilation should be provided for cargo spaces. | L | Drawings of the ventilation systems Arrangement of air holes |
| Natural or mechanical ventilation should be provided for enclosed working spaces, such as store rooms, carpenter's shops, passage ways, tunnels. Mechanical ventilation, if used, should be of safe type for use in explosive atmosphere. | L | Drawings of the system |
| Two sampling holes per hold, one on each side of the hatch cover should be provided with threaded stub and sealing cap. | L | Drawings of the system |

L: To be submitted to the local office for their checking.

Appendix 1.1 - Form of certificate

Certificate of Compliance with the International Maritime Solid Bulk Cargoes (IMSBC) Code

No. (*certificate number*)

Name of ship :
Distinctive number or letters :
Port of registry :
Gross tonnage :
Class number :
IMO number : IMO

This is to certify that the ship is suitable for the carriage in bulk of all cargoes listed in Attachment 1 in the cargo holds stated in accordance with the provisions of the International Maritime Solid Bulk Cargoes Code provided that:

1. the relevant construction and equipment are maintained in good order;
2. any cargo should be loaded and distributed in pursuant to information provided in the **approved*** loading manual and the stability information booklet provided onboard the ship;
3. the nominal specific gravity of any cargo should not exceed the allowable value indicated in the loading manual;
4. the remaining operational requirements stipulated in the Code, including those stated in General Note on Attachment 2, should be ensured.

This certificate is valid until (*date of five years after the date of issue*).

Completion date of the survey on which this certificate is based : (*survey date*)

Issued at (*place*) on (*date*)

on behalf of (*the name of the flag government*)*.

NIPPON KAIJI KYOKAI

(*name*), Surveyor

* *Delete if not appropriate.*

Attachment to the certificate No. (*certificate number*)

General Note

- When it has been required by the Code, persons, who may be exposed to the dust of the cargo, shall wear protective clothing, goggles or other equivalent dust eye-protection and dust filter masks, as necessary.
- When carrying a solid bulk cargo which is liable to emit a toxic or flammable gas, and/or cause oxygen depletion in the cargo space, the appropriate instrument(s) for measuring the concentration of gas and oxygen in the cargo space shall be provided. The instrument(s) shall be of certified safe type for use in explosive atmosphere if required.

Note

| | |
|-----|---|
| 1. | Except AMMONIUM NITRATE BASED FERTILIZER (non-hazardous), COAL SLURRY* , SCRAP METAL* and SULPHUR (formed, solid)* . |
| 2. | CHOPPED RUBBER AND PLASTIC INSULATION, COARSE CHOPPED TYRES and GRANULATE TYPE RUBBER are not permitted to be loaded when the planned interval between the commencement of loading and the completion of discharge of the cargoes exceeds 5 days. |
| 3. | AMMONIUM NITRATE BASED FERTILIZER (non-hazardous) is to be stowed out of direct contact with a metal engine room boundary. |
| 4. | PEANUTS (in shell) and Industrial sand coated with resin are to be stowed at least 3m horizontally away from engine room boundaries. |
| 5. | To be stowed at least 3m horizontally away from engine room boundaries. |
| 6. | CASTER MEAL, CASTER POMACE and CASTER FLAKE shall not be carried in bulk. |
| 7. | Consideration shall be given to providing the vessel with the means to top up the cargo spaces with additional supplies of inert gas taking into account the duration of the voyage. The ship's fixed CO2 fire extinguishing system shall not be used for this purpose. |
| 8. | Except Seedcake containing solvent extractions. |
| 9. | Fine grained sulphur (flowers of sulphur) shall not be transported in bulk. |
| 10. | With moisture content of 15% or more. |

* *Delete if not appropriate.*

ANNEX

TABLE 1

LIST OF SOLID BULK CARGOES FOR WHICH A FIXED GAS FIRE-EXTINGUISHING SYSTEM MAY BE EXEMPTED

- 1 Cargoes including, but not limited to, those listed in regulation II-2/10:
- Ore
 - Coal (COAL and BROWN COAL BRIQUETTES)
 - Grain
 - Unseasoned timber
- 2 Cargoes listed in the International Maritime Solid Bulk Cargoes (IMSBC) Code, which are not combustible or constitute a low fire risk, as follows:
- .1 all cargoes not categorized into Group B in the IMSBC Code; and
 - .2 the following cargoes categorized into Group B in the IMSBC Code:
 - ALUMINIUM SMELTING BY-PRODUCTS, UN 3170
(Both the names ALUMINIUM SMELTING BY-PRODUCTS or ALUMINIUM REMELTING BY-PRODUCTS are in use as proper shipping name)
 - ALUMINIUM FERROSILICON POWDER, UN 1395
 - ALUMINIUM SILICON POWDER, UNCOATED, UN 1398
 - CALCINED PYRITES (Pyritic ash)
 - DIRECT REDUCED IRON (A) Briquettes, hot moulded
 - FERROPHOSPHORUS (including briquettes)
 - FERROSILICON, with more than 30% but less than 90% silicon, UN 1408
 - FERROSILICON, with 25% to 30% silicon, or 90% or more silicon
 - FLUORSPAR (calcium fluoride)
 - LIME (UNSLAKED)
 - LOGS
 - MAGNESIA (UNSLAKED)
 - PEAT MOSS
 - PETROLEUM COKE*
 - PITCH PRILL
 - PULP WOOD
 - RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY MATERIAL (LSA-1), UN 2912 (non fissile or fissile – excepted)
 - RADIOACTIVE MATERIAL, SURFACE CONTAMINATED OBJECT(S) (SCO-I or SCO-II), UN 2913 (non fissile or fissile – excepted)
 - ROUNDWOOD
 - SAW LOGS
 - SILICOMANGANESE
 - SULPHUR, UN 1350
 - TIMBER
 - VANADIUM ORE
 - WOODCHIPS, with moisture content of 15% or more
 - ZINC ASHES, UN 1435

* When loaded and transported under the provisions of the IMSBC Code.

- 3 Solid bulk cargoes which are not listed in the IMSBC Code, provided that:
- .1 they are assessed in accordance with section 1.3 of the Code;
 - .2 they do not present hazards of Group B as defined in the Code; and
 - .3 a certificate has been provided by the competent authority of the port of loading to the master in accordance with 1.3.2 of the Code.

