



Designation: **F 2001 – 00a₁**

An American National Standard

Standard Guide for Vessel-Related Technical Information for Use in Developing an Electronic Database and Ship Safety Record¹

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1. Scope

1.1 This guide provides a uniform format and definition of general vessel-related technical information, including ship safety data, to be used by ship owners and operators, at their option and to the extent that they consider beneficial to their operation. It is recognized that all of the data is already contained in various documents on the vessel, but normally not electronically and normally not in one location. The Ship Safety Record is designed to provide an industry-accepted common method of identifying, maintaining, and subsequently communicating the safety-related information needed for maritime operations. It is recognized that many of the data fields are not applicable for every vessel. Appendix X1 and Appendix X2 provide examples of how data elements in this guide may be used for a specific purpose, that is, the USCG's Automated Identification System (AIS) and the Advance Notice of Arrival.

2. Referenced Documents

2.1 *ASTM Standards:*

¹ This guide is under the jurisdiction of ASTM Committee F-25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.05 on Computer Applications.

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F 1756 Standard Guide for Implementation of a Fleet Management System Network²

F 1757 Guide for Digital Communication Protocols for Computerized Systems²

2.2 IMO Documents:

The International Management Code for the Safe Operation of Ships and for Pollution Prevention— (The ISM Code) 1994³

International Convention on Standards of Training, Certification and Watchkeeping for Seafarers— (STCW Convention) 1995³

Convention on Facilitation of International Maritime Traffic, 1965, As Amended³

2.3 US Coast Guard Documents:

33 CFR 160.207 Notice of Arrival: Vessels Bound for Ports or Places in the United States⁴

33 CFR 160.211 Notice of Arrival: Vessels Carrying Certain Dangerous Cargo⁴

2.4 Other Documents:

Paris Memorandum of Understanding (MOU) on Port State Control⁵

Tokyo Memorandum of Understanding (MOU) on Port State Control⁶

Acuerdo de Vina del Mar (MOU) Latin American Agreement⁷

Memorandum of Understanding on Port State Control in the Caribbean Region (Caribbean MOU)⁸

Memorandum of Understanding on Port State Control in the Mediterranean Region (Mediterranean MOU)⁹

Indian Ocean Memorandum of Understanding on Port State Control (Indian Ocean MOU)¹⁰

Memorandum of Understanding for the West and Central African Region (Abuja MOU)¹¹

Black Sea Memorandum of Understanding on Port State Control (Black Sea MOU)¹²

3. Terminology

3.1 Abbreviations:

CAP—Condition Assessment Program

CFR—Code of Federal Regulations

ETA—estimated time of arrival

ETD—estimated time of departure

ILO—International Labor Organization

IMO—International Maritime Organization

IOPP—International Oil Pollution Prevention

ISM—International Management Code for the Safe Operation of Ships and for Pollution Prevention

ISM DOC—ISM Document of Compliance

ISM SMC—ISM Safety Management Certificate

MARPOL—International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978 relating thereto

NLS—noxious liquid substance

NUC—not under command

OPA 90—U.S. Oil Pollution Act of 1990

RO RO—roll-on/roll-of vessel

SOLAS—Safety of Life at Sea Convention

STCW—International Convention on Standards of Training, Certification and Watchkeeping for Seafarers 1995

UTC—universal time coordinated

4. Significance and Use

4.1 The Ship Safety Record is an electronic database of information pertaining to a specific vessel including information related to the safe operation of the vessel and the safety of it's crew and the environment. The data is grouped and organized under the

² Annual Book of ASTM Standards, Vol 01.07.

³ Available from International Maritime Organization, 4 Albert Embankment, London, U.K. SEI 7SR.

⁴ Available from Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

⁵ Available from Secretariat, Nieuwe Uitleg 1, PO Box 20904, 2500 EX Den Haag, The Netherlands.

⁶ Available from Secretary, Tomoecho Annex Bldg. 6F, 3–8–26, Toranomon Minato-ku, Tokyo 105–0001 Japan.

⁷ Available from Secretariat, Prefecture Av. E. Madero 235 Baja, Buenos Aires, Argentina.

⁸ Available from Secretariat, Ministry of Tourism and International Transport, Adriene's Complex, Warrens, St Michael, Barbados.

⁹ No permanent address at this time.

¹⁰ Available from Secretariat, 27 Admiral Hamza Pasha St., Roushdy, Alexandria, Egypt.

¹¹ Technical information pertaining to Port State Control is included in a Memorandum of Understanding (MOU) for various regions worldwide as listed in 2.4.

¹² Available from Secretariat, Head Land, Sada, Goa 403804 India.

¹³ This guide is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.05 on Computer Applications.

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¹⁴ Available from Secretariat, Meclisi Mebusa Cad. No. 18, Salipazri, 80040 Istanbul, Turkey.

following key categories: vessel particulars, vessel status, crew requirements, crew status, voyage specific data, record of inspection, record of incidents, and corrective actions.

4.2 The Ship Safety Record is created and maintained in each instance for the primary benefit of the owner, technical manager, or operator who is required through the implementation of the ISM Code to be cognizant of such information. The information in the database is at all times the property of the owner who will maintain and control the dissemination of any and all of the information. It is expected that operators will elect to make portions of their Ship Safety Record database available to other interested parties such as flag states, class societies, and port states.¹³ The Ship Safety Record should provide for the implementation of several levels of electronic database security as may be required by the vessel owner or operator. The data that becomes part of the Ship Safety Record can be thought of in a number of subsets:

4.2.1 Data that is not subject to change, including particulars of the vessel, and so forth.

4.2.2 Data that is subject to change but not normally by the ship's crew.

4.2.3 Data that will be updated periodically either manually or as a result of updates to other computer systems or applications. This would include, as an example, cargo information, ballast conditions, the names/identification of crew members, and passenger details. This would also include information relative to internal inspections, maintenance records, internal audits, safety audits, and so forth.

4.3 Guides F 1756 and F 1757 may be used as the basis for implementation of a shipboard electronic database and ship safety record.

5. Vessel Particulars

5.1 *Vessel Identification:*

5.1.1 IMO number.

5.1.2 Vessel name.

5.1.3 Previous names.

5.1.4 Vessel type.

5.1.5 Vessel call sign.

5.1.6 Flag state.

5.1.7 Ship owner.

5.1.8 Ship operator (who is responsible for ISM compliance).

5.1.9 Company as defined in ISM Code.

5.1.10 Company contact information.

5.1.11 Current classification society.

5.1.12 Builder's name.

5.1.13 Construction contract date.

5.1.14 Keel laying date.

5.1.15 Delivery date.

5.2 *Vessel Certificates:*

5.2.1 The actual list of certificates required for a vessel is a function of the vessel's intended trade route, flag state, and international requirements.

5.2.1.1 Certificate of registry.

5.2.1.2 Safety equipment certificate.

5.2.1.3 Safety construction certificate(s).

5.2.1.4 Cargo ship safety certificate.

5.2.1.5 Passenger ship safety certificate.

5.2.1.6 Radio safety certificate.

5.2.1.7 Cargo ship radio telegraphy certificate.

5.2.1.8 Cargo ship radio telephony certificate.

5.2.1.9 SOLAS exemption certificate.

5.2.1.10 International load line certificate.

5.2.1.11 International load line exemption certificate.

5.2.1.12 Certificate of fitness (liquefied gases in bulk).

5.2.1.13 Certificate of fitness (chemicals in bulk).

5.2.1.14 Oil pollution certificate.

(1) IOPP Certificate/NLS Certificate and Form A Supplement (MARPOL) and Form B.

(2) Annex to Civil Liability for Oil Pollution Damage 1992.

(3) Annex to Compensation for Oil Pollution Damage 1992.

5.2.1.15 Hazardous & Noxious Substances Certificate.

¹³ Technical information pertaining to Port State Control is included in a Memorandum of Understanding (MOU) for various regions worldwide as listed in 2.4.

- 5.2.1.16 Minimum Safe Manning Document.
 - 5.2.1.17 ISM Safety Management Certificate.
 - 5.2.1.18 ISM Document of Compliance.
 - 5.2.1.19 Classification Certificates:
 - (1) Hull.
 - (2) Machinery.
 - (3) Automation.
 - (4) Navigation.
 - 5.2.1.20 International Tonnage Certificate 1969.
 - 5.2.1.21 National Certificates:
 - (1) Panama Tonnage Certificate.
 - (2) Suez Tonnage Certificate.
 - (3) USCG Certificate of Inspection.
 - (4) U.S. Certificate of Financial Responsibility.
 - (5) Stability Approval Letter.
 - 5.2.1.22 Ship's radio station license.
 - 5.2.1.23 Supplementary to Safety Steering Gear Certificate.
 - 5.2.1.24 Certificate of Sanitary Construction.
 - 5.2.1.25 Register of Cargo Gear.
 - 5.2.1.26 Certificate of Documentation, unless 5.2.1.1.
 - 5.2.1.27 Life Raft Certificates.
 - 5.2.1.28 Certificates of Financial Responsibility (COFR).
 - 5.2.1.29 ITOPF Membership Certificate.
 - 5.2.1.30 Certificate of Deadweight.
 - 5.2.1.31 U.S. Tonnage Certificate.
 - 5.2.1.32 Certificate of Official Number.
- 5.3 *Particulars of the Vessel's Physical Characteristics:*
- 5.3.1 (LOA) length overall (metres/feet).
 - 5.3.2 (LBP) Length between perpendiculars (metres/feet).
 - 5.3.3 Design draft (metres/feet).
 - 5.3.4 Beam (metres/feet).
 - 5.3.5 Keel to top of mast height (metres/feet).
 - 5.3.6 (DWT) summer deadweight (metric tons).
 - 5.3.7 (GRT) gross register tons (metric tons) (for Tankers may be reduced GRT in accordance with IMO Res. A388(x)).
 - 5.3.8 GRT gross register tons U.S.
 - 5.3.9 Displacement (metric tons).
 - 5.3.10 Lightship weight (metric tons).
 - 5.3.11 Molded depth at sea (metres/feet).
 - 5.3.12 Description of steering gear.
 - 5.3.13 Type of rudder.
- 5.4 *Particulars of the Vessel Subdivision and Stability Data:*
- 5.4.1 (VCG) light ship vertical center of gravity (metres/feet).
 - 5.4.2 (LCG) light ship longitudinal center of gravity (metres/feet).
 - 5.4.3 Cargo subdivision (number of holds or tanks).
 - 5.4.4 Intact stability limitations (cargo conditions limiting vessel operation).
 - 5.4.5 Damage stability criteria.
 - 5.4.6 Minimum metacentric height; G.M.
 - 5.4.7 Identification of shipboard trim and stability electronic program.
- 5.5 *Particulars of the Vessels Machinery:*
- 5.5.1 Main engine type.
 - 5.5.2 Main engine manufacturer.
 - 5.5.3 Main engine model.
 - 5.5.4 Main engine rating.
 - 5.5.5 Main engine fuel.
 - 5.5.6 List of critical auxiliary machinery.
- 5.6 *Particulars of the Vessel Safety System:*
- 5.6.1 Number and size of fire pumps.
 - 5.6.2 Number and type of fire extinguishers.

- 5.6.3 CO₂ system/fixed fire fighting systems.
- 5.6.4 Number and size of life boats.
- 5.6.5 Number and size of life rafts.
- 5.6.6 Automatic fire control system.
- 5.7 *Particulars of the Vessel Navigation Systems:*
 - 5.7.1 Description of marine radar system.
 - 5.7.2 Description of magnetic steering compass.
 - 5.7.3 Description of gyro compass/repeater.
 - 5.7.4 Description of rudder angle indicator.
- 5.8 *Particulars of the Vessel Deck Machinery:*
 - 5.8.1 Number and capacity of anchors and anchor windlass.
 - 5.8.2 Number and capacity of mooring winch.
 - 5.8.3 Number and capacity of cargo and other lifting gear.
 - 5.8.4 Cargo gear registry.
 - 5.8.5 Number and capacity of hose handling crane.
- 5.9 *Particulars of Cargo System:*
 - 5.9.1 Type of Cargo.
 - 5.9.2 *Vessels Cargo Handling Systems*—Number and size of cargo pumps, description of piping system, cargo control system, manifolds, vessels dry cargo loading and unloading systems, cargo cranes, and so forth.
- 5.10 *Vessel Communications Systems:*
 - 5.10.1 Radio equipment.
 - 5.10.2 Shipboard Information Technology Platform (SITP); operating system.
 - 5.10.3 Interior communications.
 - 5.10.4 Satcom.
 - 5.10.5 Cellular.
 - 5.10.6 PC network.
- 5.11 *Vessel Response Plan(s) (Can Include International and Locally Required Plans)*—Notification contact names and numbers for the following:
 - 5.11.1 Qualified individual.
 - 5.11.2 Oil spill response organization.
 - 5.11.3 Spill management team.
 - 5.11.4 Salvage/fire fighting/lightering organization.
 - 5.11.5 Electronic hull file location/custodian.
- 5.12 *Incident/Accident Record (Dates of Each):*
 - 5.12.1 Pollution incident.
 - 5.12.2 Grounding.
 - 5.12.3 Collision.

6. Vessel Status

- 6.1 *Status of Certificates*—List the current status of each certificate as stated in 5.2. The actual list of certificates required for a vessel is a function of the vessel's trade and will be determined by flag state and international requirements.
 - 6.1.1 Certificate of Registry.
 - 6.1.2 Safety Equipment Certificate.
 - 6.1.3 Safety Construction Certificate(s).
 - 6.1.4 Cargo Ship Safety Certificate.
 - 6.1.5 Passenger Ship Safety Certificate.
 - 6.1.6 Safety Radio Certificate.
 - 6.1.7 Cargo Ship Radio Telegraphy Certificate.
 - 6.1.8 Cargo Ship Radio Telephony Certificate.
 - 6.1.9 SOLAS Exemption Certificate.
 - 6.1.10 International Load Line Certificate.
 - 6.1.11 International Load Line Exemption Certificate.
 - 6.1.12 Certificate of Fitness (liquefied gases in bulk).
 - 6.1.13 Certificate of Fitness (chemicals in bulk).
 - 6.1.14 Oil Pollution Certificate.
 - 6.1.14.1 IOPP Certificate/NLS Certificate and Form A Supplement (MARPOL) and Form B.
 - 6.1.14.2 Annex to Civil Liability For Oil Pollution Damage 1992.
 - 6.1.14.3 Annex to Compensation For Oil Pollution Damage 1992.
 - 6.1.15 Hazardous & Noxious Substances Certificate.

- 6.1.16 Minimum Safe Manning Document.
 - 6.1.17 ISM Safety Management Certificate.
 - 6.1.18 ISM Document of Compliance.
 - 6.1.19 Classification Certificates:
 - 6.1.19.1 Hull.
 - 6.1.19.2 Machinery.
 - 6.1.19.3 Automation.
 - 6.1.19.4 Navigation.
 - 6.1.20 International Tonnage Certificate 1969.
 - 6.1.21 National certificates:
 - 6.1.21.1 Panama Tonnage Certificate.
 - 6.1.21.2 Suez Tonnage Certificate.
 - 6.1.21.3 USCG Certificate of Inspection.
 - 6.1.21.4 U.S. Certificate of Financial Responsibility.
 - 6.1.21.5 Stability Approval Letter.
 - 6.1.22 Ship's Radio Station License.
 - 6.1.23 Supplementary to Safety Steering Gear Certificate.
 - 6.1.24 Certificate of Sanitary Construction.
 - 6.1.25 Register of Cargo Gear.
 - 6.1.26 Certificate of Documentation, unless 6.1.1.
 - 6.1.27 Life Raft Certificates.
 - 6.1.28 Certificate of Financial Responsibility (Alaska Pipeline).
 - 6.1.29 ITOPF Membership Certificate.
 - 6.1.30 Certificate of Deadweight.
 - 6.1.31 U.S. Tonnage Certificate.
 - 6.1.32 Certificate of Official Number.
- 6.2 *Status of Hull Structure:*
- 6.2.1 Local structural damage reported by crew as a result of routine on-board inspection.
 - 6.2.2 Temporary repairs to be completed.
 - 6.2.3 Outstanding items from last class survey report.
 - 6.2.4 Status of coatings.
 - 6.2.5 Status of cathodic protection system.
- 6.3 *Status of Machinery: Inoperable Equipment, Repair Work Schedules, and So Forth:*
- 6.3.1 Main engine.
 - 6.3.2 Main and auxiliary boilers.
 - 6.3.3 Other auxiliaries.
 - 6.3.4 Outstanding items from last Class Survey Report.
- 6.4 *Status of Vessel Safety Systems:*
- 6.4.1 inoperable equipment.
 - 6.4.2 last operation of emergency generator.
 - 6.4.3 Last operation of emergency fire pump.
 - 6.4.4 Outstanding items from last Class Survey Report.
- 6.5 *Status of Vessel Navigation Systems:*
- 6.5.1 Steering gear engines.
 - 6.5.2 Steering control system.
 - 6.5.3 Marine radar system.
 - 6.5.4 Magnetic steering compass.
 - 6.5.5 Gyro compass/Repeater.
 - 6.5.6 Rudder angle indicator.
 - 6.5.7 Outstanding items from last Class Survey Report.
 - 6.5.8 Status of Global Positioning System (GPS) receiver(s)
- 6.6 *Report of Fuel Quality*—Report the following for each fuel on board:
- 6.6.1 Density.
 - 6.6.2 Viscosity.
 - 6.6.3 Pour point.
 - 6.6.4 Water content.
 - 6.6.5 Fuel stability.
 - 6.6.6 Abrasive particles.

- 6.6.7 Salt water.
- 6.6.8 Strong acidity.
- 6.6.9 Sulfur content.
- 6.7 *Report on Lube Oil Quality:*
 - 6.7.1 Change in viscosity.
 - 6.7.2 Presence of water.
 - 6.7.3 Strong acidity.
 - 6.7.4 Comparative viscosity.

7. Crew Requirements

7.1 Identification of Crew Positions Consistent with Safe Manning Requirements and Muster List:

- 7.1.1 Master.
- 7.1.2 Officers in charge of a navigational watch.
- 7.1.3 Chief mate.
- 7.1.4 Officer in charge of a navigational watch; near—coastal voyage.
- 7.1.5 Master—near—coastal voyage.
- 7.1.6 Ratings forming part of a navigational watch.
- 7.1.7 Officer in charge of engineering watch propulsion power (>750 kw).
- 7.1.8 Chief engineer propulsion power (>3000 kw).
- 7.1.9 Chief engineer propulsion power (750 to 3000 kw).
- 7.1.10 Second engineer propulsion power (>3000 kw).
- 7.1.11 Second engineer propulsion power (750 to 3000 kw).
- 7.1.12 Ratings forming part of an engineering watch.
- 7.1.13 Radio operator.
- 7.1.14 GMDSS qualified officers.
- 7.1.15 Officers qualified to carry out cargo transfer operations.

7.2 Training Requirements—For each position and who qualified:

- 7.2.1 Requirements for familiarity with company procedures.
- 7.2.2 STCW training (in accordance with Section A-VI/1 and A-VZ as applicable):
 - 7.2.2.1 Tanker familiarization course—chemical tanker—liquified gas tanker.
 - 7.2.2.2 Personal survival techniques.
 - 7.2.2.3 Advanced fire fighting.
 - 7.2.2.4 Medical first aid.
 - 7.2.2.5 Personnel in charge of medical care.
 - 7.2.2.6 Personal safety and social responsibility.
 - 7.2.2.7 Ro-Ros (passenger ships).
 - (1) Crowd management.
 - (2) Crisis management.
- 7.2.3 Survival craft and rescue boat training.
- 7.2.4 Fast rescue boat training.
- 7.2.5 Familiarization training.
- 7.2.6 Listing of officers qualified to perform on-board training and on-board assessment of training.

8. Status of Crew and Persons Other Than Passengers on Board

8.1 Identification of Crew and Persons Other Than Passengers on Board:

- 8.1.1 Full name of each person.
- 8.1.2 Rank or rating.
- 8.1.3 Date and place of birth.
- 8.1.4 Muster list assignments.
- 8.1.5 Position as defined in 3.1 filled by each named crew member.
- 8.1.6 Date signed on.
- 8.1.7 Vacant positions from 7.1.

8.2 Certificate of Competency for Each Crew Member as Issued by Flag State of Vessel; (Issue Date, Validity):

- 8.2.1 Seafarer's name.
- 8.2.2 Date of birth.
- 8.2.3 Nationality.
- 8.2.4 Sex.
- 8.2.5 Relevant document number.
- 8.2.6 Date of issue.

- 8.2.7 Date of expiry.
- 8.2.8 Last revalidation date.
- 8.2.9 Details of dispensation(s).
- 8.2.10 STCW certification of each licensed crew member.
 - 8.2.10.1 STCW competency standard (for example, regulation II/I).
 - 8.2.10.2 Title.
 - 8.2.10.3 Function.
 - 8.2.10.4 Endorsements.

8.3 *Training Records*—For each person on board other than passengers:

- 8.3.1 STCW training (as applicable to type of vessel and person with designated safety or pollution duties):
 - 8.3.1.1 Tanker familiarization course.
 - 8.3.1.2 Personal survival techniques.
 - 8.3.1.3 Advanced fire fighting.
 - 8.3.1.4 Medical first aid.
 - 8.3.1.5 Personnel in charge of medical care.
 - 8.3.1.6 Personal safety and social responsibility.
 - 8.3.1.7 Ro-Ros (passenger ships).
- 8.3.2 Familiarization training.
- 8.3.3 Listing of personnel by position required to have on-board training record book.
- 8.3.4 Evidence of training in company procedures.

8.4 *Medical Records for Each Crew Member*:

- 8.4.1 Documented evidence of medical fitness for each crew member in accordance with ILO Convention No. 73.
- 8.4.2 Proof of drug/alcohol testing.

8.5 *Log of Hours Worked (Compliance with OPA 90 STCW)*—Hours worked each week for each crew member forming part of a navigational or engineering watch.

8.6 *Required Drills Last Performed (Date and Time)*:

- 8.6.1 Fire drill/explosion.
- 8.6.2 Boat drill.
- 8.6.3 Rescue boat drill.
- 8.6.4 Man overboard drill.
- 8.6.5 Entering and leaving port equipment drills.
- 8.6.6 Abandon ship drill.
- 8.6.7 Enclosed space rescue drill.

9. Voyage Specific Data

9.1 *Port of Departure (Last Port of Call)*:

- 9.1.1 Name of port, country.
- 9.1.2 Date and time of departure.

9.2 *Destination Port (Next Port of Call)*:

- 9.2.1 Name of port, country.
- 9.2.2 Estimated time of arrival.
- 9.2.3 Facility name.
- 9.2.4 Loading/off loading.
- 9.2.5 Bunkering—Y/N.
- 9.2.6 Lightering—Y/N.
- 9.2.7 Agent.

9.3 *Loading Pattern*:

- 9.3.1 Tons of cargo in each liquid cargo tank and percent full.
- 9.3.2 Tons of fuel in each fuel tank and percent full.
- 9.3.3 Tons of bulk cargo in each cargo hold.
- 9.3.4 Tons of bulk cargo/containers stowed above deck.
- 9.3.5 Planned loading and off-loading sequence.
- 9.3.6 Type of cargo carried.
- 9.3.7 Location of each cargo carried.

9.4 *Ballast Condition*:

- 9.4.1 Tons of ballast in each ballast tank; percent full and location where ballast taken on.
- 9.4.2 Operating draft; (propeller immersion).

9.5 *Passenger Details*:

- 9.5.1 Name and nationality.

- 9.5.2 Assigned cabin.
- 9.5.3 Assigned lifeboat.
- 9.6 *Critical Voyage Events (Other Than 5.12):*
 - 9.6.1 Off spec bunkers.
 - 9.6.2 Heavy weather (deviation/damage).
 - 9.6.3 Fire on board.
 - 9.6.4 Cargo shifts.
 - 9.6.5 Accident/personal injury.
 - 9.6.6 Sickness.

10. Record of Inspection

- 10.1 *Internal Inspections:*
 - 10.1.1 Inspections of hull by crew; date, findings, and action required.
 - 10.1.2 Inspections of machinery by crew; date, findings, and action required.
- 10.2 *Audit Reports:*
 - 10.2.1 Shipboard audit deficiencies and corrective action taken.
 - 10.2.2 Internal ISM audits (company management and shipboard).
 - 10.2.3 External ICM audits (company management and shipboard).
 - 10.2.4 Other external audit reports (company management and shipboard).
- 10.3 *Classification Survey Records:*
 - 10.3.1 Annual hull survey.
 - 10.3.2 Annual machinery survey.
 - 10.3.3 Intermediate survey hull.
 - 10.3.4 Intermediate survey machinery.
 - 10.3.5 Special survey hull.
 - 10.3.6 Special survey machinery.
- 10.4 *Flag State Inspections:*
 - 10.4.1 Safety construction inspection.
 - 10.4.2 Safety equipment inspection.
 - 10.4.3 IOPP inspection.
 - 10.4.4 Safety radio inspection.
 - 10.4.5 Load line inspection.
- 10.5 *Port State Inspections:*
 - 10.5.1 Control number.
 - 10.5.2 Annual.
 - 10.5.3 Reexamination.
 - 10.5.4 Inspection for Certificate of Compliance.
 - 10.5.5 Ballast tank examination.
- 10.6 *CAPs and Vettings*—For each type of survey, list the surveyor, date, and deficiency.
- 10.7 *Certifying Authority ISM Audits of Operations Procedures (Dates Due/Completed, for Each):*
 - 10.7.1 Annual office audit (SMC).
 - 10.7.2 Intermediate ship audit (DOC).
 - 10.7.3 DOC renewal audit.

11. Record of Incidents

- 11.1 *Port State Restrictions:*
 - 11.1.1 Prevented from entering port.
 - 11.1.2 Cargo operation delayed pending examination.
 - 11.1.3 Fines imposed.
 - 11.1.4 Vessel arrested.
- 11.2 *Unscheduled Off-Hire:*
 - 11.2.1 Equipment failure at sea.
 - 11.2.2 Delays for ship assist/rescue.
 - 11.2.3 Berth availability.
 - 11.2.4 Cargo transfer restrictions.
 - 11.2.5 External interference, for example, weather delays, acts of war, piracy.
- 11.3 *Other Reportable Incidents:*
 - 11.3.1 Loss of propulsion.
 - 11.3.2 Loss of electrical power.

- 11.3.3 Loss of steering.
- 11.3.4 Oil spill on-board.
- 11.3.5 Navigational error.
- 11.3.6 Near-miss incidents.

12. Corrective Actions

- 12.1 *Scheduled Critical Maintenance:*
 - 12.1.1 By ship's crew.
 - 12.1.2 By shore crew.
 - 12.1.3 By dry docking.
- 12.2 *Awaiting Critical Equipment:*
 - 12.2.1 Equipment for vital ship's systems.
 - 12.2.2 Equipment for personal safety.
 - 12.2.3 Equipment for shipboard safety systems.
 - 12.2.4 Equipment for navigational systems.
- 12.3 *Critical Documentation Needed:*
 - 12.3.1 Navigational information (charts, and so forth).
 - 12.3.2 Vendor maintenance and repair manuals.
 - 12.3.3 Required emergency notification information.
 - 12.3.4 Updates on classification/statutory status reports.
- 12.4 *Deficiency Log*—Deficiencies not reported under other systems.

13. Keywords

- 13.1 Advance Notice of Arrival; ISM Code; maritime operations; port state control; ship electronic database; ship safety record

ANNEX

(Mandatory Information)

A1. REFERENCED STANDARDS

Standards referenced in this guide are available for purchase as follows:

ISO and IEC Standards from

American National Standards Institute (ANSI)
11 W. 42nd St.
New York, NY 10036
Tel. 212-642-3946
Fax 212-302-1286

IEEE Standards from

Institute of Electrical and Electronic Engineers
PO Box 1331
Piscataway, NJ 08855-1331
Tel 800-678-4333 (U.S. and Canada)
Tel 908-981-1393 (outside U.S. and Canada)
Fax 908-981-9667

ASTM Standards from

American Society for Testing and Materials
100 Barr Harbor Dr.
PO Box C700
West Conshohocken, PA 19428-2959

NMEA Standards from

National Marine Electronics Association
PO Box 3435
New Bern, NC 28564-3435

IMO Publications from

International Maritime Organization
4 Albert Embankment

London, U.K. SE1 7SR
United States Coast Guard Documents
Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20402

APPENDIXES

(Nonmandatory Information)

X1. UNITED STATES COAST GUARD

X1.1 Automatic Identification System (AIS) View

- X1.1.1 Mobile marine station identification (MMSI).
- X1.1.2 Call sign, 5.1.5.
- X1.1.3 Name, 5.1.2.
- X1.1.4 Dimensions of ship, 5.3.1-5.3.5.
- X1.1.5 Type of ship, 5.1.4.
- X1.1.6 Position of fixing antenna on the ship.
- X1.1.7 Ship's position with accuracy indication.
- X1.1.8 Time in UTC.
- X1.1.9 Course over ground.
- X1.1.10 Speed over ground.
- X1.1.11 Heading.
- X1.1.12 Navigational Status (for example, NUC, at anchor, and so forth)
- X1.1.13 Rate of turn (where available).
- X1.1.14 Angle of heel (where available).
- X1.1.15 Pitch and roll (where available).
- X1.1.16 Ship's draught, 9.4.2.
- X1.1.17 Hazardous cargo (type), 9.3.6.
- X1.1.18 Destination, 9.2.1.
- X1.1.19 ETA, 9.2.2.
- X1.1.20 Short safety-related messages.

X1.2 Ship Damage Reporting to Nearest Coastal State

- X1.2.1 Risk of pollution report, 5.12.1.

X1.3 Personnel Casualty Reporting to Company

- X1.3.1 Report of death, injury, and serious illness, 9.6.5.
- X1.3.2 Nature and cause of injury.

X1.4 Casualty Reporting to Company (Initial and Final Report for each)

- X1.4.1 Collision, structural damage, grounding, stranding, fire, and explosion, 5.12.2 and 5.12.3.
- X1.4.2 Machinery breakdown, damage to machinery space, and flooding, 6.3.1-6.3.3.
- X1.4.3 Damage/loss to cargo.

X1.5 Oil Spill and Pollution

- X1.5.1 Report to local government agencies,
- X1.5.2 company,
- X1.5.3 designated qualified individual, and
- X1.5.4 Oil Spill Response Agency.

X2. USCG ADVANCE NOTICE OF ARRIVAL- PORT STATE CONTROL (PSC)

X2.1 The United States Coast Guard’s Advance Notice of Arrival for vessels bound for ports or places in the United States, in accordance with 33 CFR 160.207, shall include the following:

X2.1.1 The owner, agent, master, operator, or person in charge of a vessel (except a barge bound for a port or place in the United States) shall report the following at least 24 h before entering the port or place of destination to the captain of the port of destination.

X2.1.2 The Ship Safety Record (SSR) Reference Group is provided as follows to demonstrate that for vessels provided with an electronic Ship Safety Record, all the data in the Notice of Arrival has already been captured.

Item	Main Document Reference Group
Vessel name	5.1.2
Name of registered owner	5.1.7
Name of operator	5.1.8
Flag	5.1.6
Call sign	5.1.5
IMO number	5.1.1
Name of classification society	5.1.11
Type of vessel	5.1.4
Name and telephone number of 24-h point of contact	5.11.1
SMC information	6.1.17 & 6.1.18
ETA Date/Time	9.2.2
ETD Date/Time	9.1.2
Last port of call	9.1.1
Next port of call	9.2.1
Type of cargo	9.3.6
Loading/off-load	9.2.4
Facility name	9.2.3
Bunkering	9.2.5
Lightering	9.2.6
Agent	9.2.7

X2.1.3 In accordance with 33 CFR 160.211, for vessels carrying certain dangerous cargo, in addition to the preceding, the Advance Notice of Arrival is to report the location of the vessel and the following:

Name and tons of each dangerous cargo and tank stowage	9.3.1
Operational condition of navigation equipment	6.5.3-6.5.6

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