

Launch of the Arctic Council Polar Code Project by Finland and the Russian Federation



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Information Campaign on the Polar Code by the Member States of the Arctic Council *

The IMO Polar Code – International Code for Ships operating in Polar Waters

- The Arctic Council Member States and Permanent Participants welcome the entry into force of the IMO Polar Code from the beginning of the year 2017 as it enhances both shipping safety and environmental protection in its application areas in the Arctic and Antarctic waters.
- With this campaign, The Arctic Council Member States would like to inform the Masters of all ships visiting their ports about the application of the Code, its Regulations, and Documentation Requirements.

*Canada, the King Norway, Russian - Creenland and the Faroe Islands), Finland Jeeb



The application area of the Polar Code in Arctic waters





WHAT DOES THE POLAR CODE MEAN FOR SHIP SAFETY?

EQUIPMENT



WINDOWS ON BRIDGE Means to clear melted ice, freezing rain, snow, mist,



LIFEBOATS

All lifeboats to be partially or totally enclosed type



CLOTHING I Adequate thermal protection for all persons on board



CLOTHING II

On passenger ships, an immersion suit or a thermal protective aid for each person on board



ICE REMOVAL

Special equipment for ice removal: such as electrical and pneumatic devices, special tools such as axes or wooden clubs.



FIRE SAFETY

Extinguishing equipment operable in cold temperatures; protect from ice; suitable for persons wearing bulky and cumbersome cold weather gear





SHIP CATEGORIES

Three categories of ship which may operate in Polar Waters, based on: A) medium first-year ice B) thin first-year ice C) open waters/ice conditions less severe than A and B



INTACT STABILITY

Sufficient stability in intact condition when subject to ice accretion and the stability calculations must take into account the icing allowance



MATERIALS

Ships intended to operate in low air temperature must be constructed with materials suitable for operation at the ships polar service temperature



STRUCTURE

In ice strengthened ships, the structure of the ship must be able to resist both global and local structural loads

OPERATIONS & MANNING



NAVIGATION

Receive information about ice conditions



CERTIFICATE & MANUAL

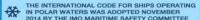
Required to have on board a Polar Ship Certificate and the ship's Polar Water Operational Manual



TRAINING

Masters, chief mates and officers in charge of a navigational watch must have completed appropriate basic training (for open-water operations), and advanced training for other waters, including ice

BACKGROUND INFO



IT APPLIES TO SHIPS OPERATING IN ARCTIC AND ANTARCTIC WATERS

THE AIM IS TO PROVIDE FOR SAFE SHIP
OPERATION AND THE PROTECTION OF THE POLAR
ENVIRONMENT BY ADDRESSING RISKS PRESENT
IN POLAR WATERS AND NOT ADEQUATELY
MITIGATED BY OTHER INSTRUMENTS





HOW THE **POLAR** CODE PROTECTS THE ENVIRONMENT

OIL



DISCHARGES
Discharge into the sea of oil or oily mixtures from any ship is prohibited



STRUCTURE

Double hull and double bottom required for all oil tankers, including those less than 5,000dwt (A/B ships constructed on or after 1 January 2017)



HEAVY FUEL OIL Heavy fuel oil is banned in the Antarctic (under MARPOL). Ships are encouraged not to use or carry heavy fuel oil in the



LUBRICANTS

Consider using non-toxic biodegradable lubricants or water-based systems in lubricated components outside the underwater hull with direct seawater interfaces.

INVASIVE SPECIES



INVASIVE AQUATIC SPECIES Measures to be taken to minimize the risk of invasive aquatic species through ships' ballast water and biofouling

BACKGROUND INFO

- THE INTERNATIONAL CODE FOR SHIPS OPERATING IN POLAR WATERS WILL ENTER INTO FORCE ON 1 JANUARY 2017
- ## IT APPLIES TO SHIPS OPERATING IN ARCTIC AND ANTARCTIC WATERS: ADDITIONAL TO EXISTING MARPOL REQUIREMENTS
- IT PROVIDES FOR SAFE SHIP OPERATION AND PROTECTS THE ENVIRONMENT BY ADDRESSING THE UNIQUE RISKS PRESENT IN POLAR WATERS BUT NOT COVERED BY OTHER INSTRUMENTS.



SEWAGE



DISCHARGES I No discharge of sewage in polar waters allowed (except under specific circumstances)



TREATMENT PLANTS
Discharge is permitted
if ship has an approved
sewage treatment plant, and
discharges treated sewage
as far as practicable from the
nearest land, any fast ice,
ice shelf, or areas of specified
ice concentration



DISCHARGES II

 Sewage not comminuted or disinfected can be discharged at a distance of more than 12nm from any ice shelf or fast ice
 Comminuted and disinfected sewage can be discharged more than 3nm from any ice shelf or fast ice

GARBAGE



PLASTICS All disposal of plastics prohibited (under MARPOL)



FOOD WASTES I Discharge of food wastes onto the ice is prohibited



FOOD WASTES II Food wastes which have been comminuted or ground [no greater than 25mm) can be discharged only when ship is not less than 12nm from the nearest land, nearest ice shelf, or nearest fast ice



ANIMAL CARCASSES Discharge of animal carcasses is prohibited



CARGO RESIDUES

CARGO RESIDUES
Cargo residues, cleaning agents
or additives in hold washing water
may only be discharged it, they
are not harmful to the marine
environment; both departure and
destination ports are within Arctic
waters; and there are no adequate
reception facilities at those ports.
The same requirements apply to
Antarctic grag under MAPOL

DEFINITIONS



SHIP CATEGORIES
Three categories of ship designed to operate in polar

Three categories of ship designed to operate in polar waters in:

A) at least medium first-year loc
 B) at least thin first-year loc
 C) open waters/ice conditions
less severe than A and B



FAST ICE: Sea ice which forms and remains fast along the coast, where it is attached to the shore, to an ice wall, to an ice front, between shoals or grounded icebergs.

ICE SHELF: A floating ice sheet of considerable thickness showing 2 to 50m or more above sea-level, attached to the coast

CHEMICALS



DISCHARGES
Discharge of noxious
liquid substances (NLS) or
mixtures containing NLS is
prohibited in polar waters



Protection of the Arctic Marine Environment

Documentation Requirements

- 1. Polar Ship certificate supplemented by a Record of Equipment for the Polar Ship Certificate
 - 2. Manning and training
 - 3. MARPOL certificates
- 4. Ships will need to carry a Polar Water Operational Manual



Thank you for your attention!



