



# IMDG Update

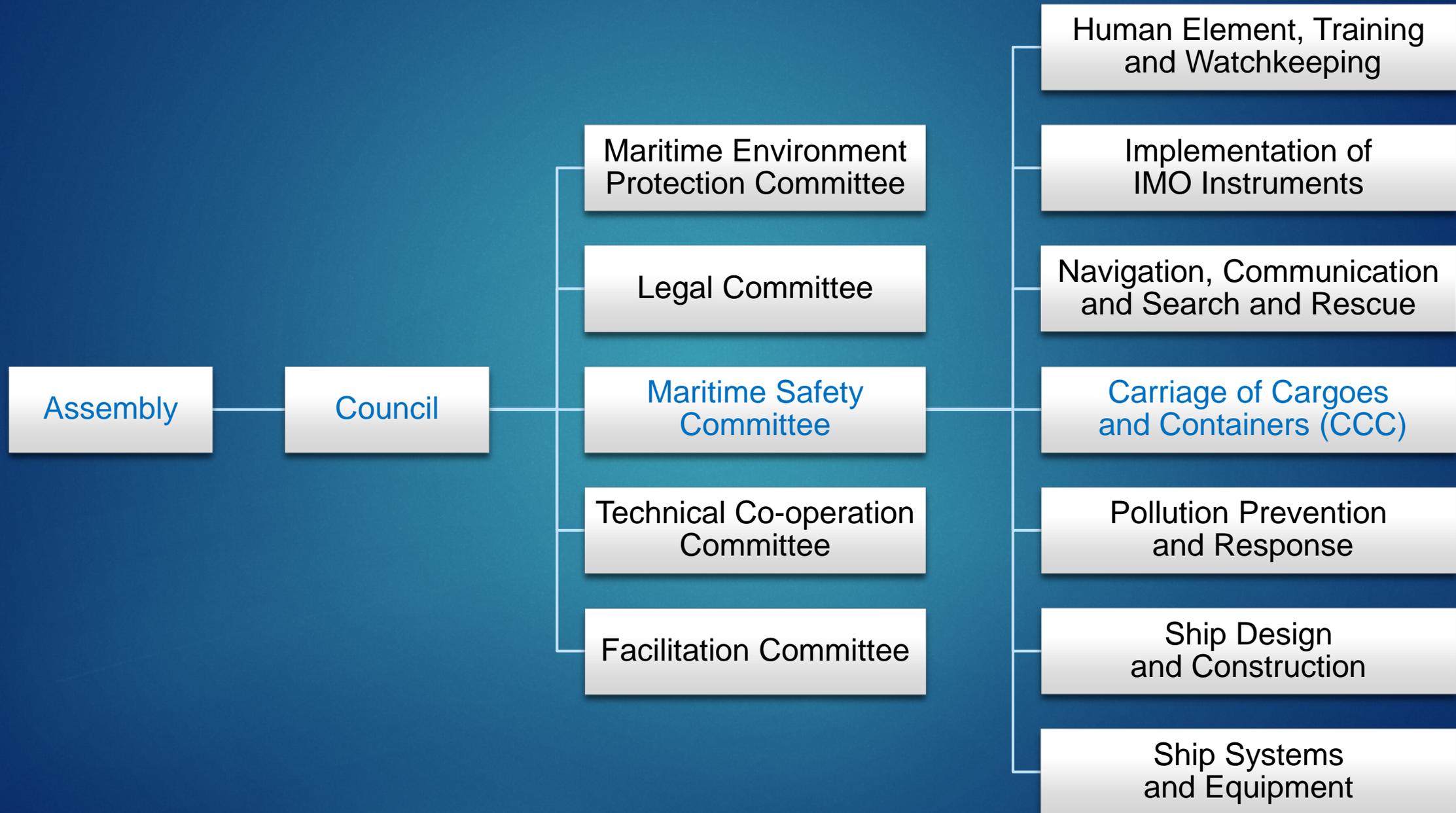
ROSS M<sup>C</sup>LACHLAN

REGULATORY AND TRAINING CONSULTANT

THE DANGEROUS GOODS OFFICE LTD



# International Maritime Organisation (IMO)



# 2018 Edition

Amendment 39-18

Voluntary use from 1 January 2019

Mandatory from 1 January 2020





# Substance/Article Specific Changes

- ▶ UN2216 Fish meal/scrap stabilized (other than in bulk)
  - ▶ SP308 - removal of 3,000kg limit and amended type/level of stabilizers
  - ▶ SP945 - deleted as a result of amendment to SP308
  
- ▶ UN3496 Batteries, nickel-metal hydride
  - ▶ SP963 amended to clarify all button cells are not subject to IMDG, not just when in/with equipment



# Segregation

## ▶ Segregation Code SG1

- ▶ Applies to UN2956, 5-tert-Butyl-2,4,6-trinitro-m-xylene (musk xylene) Division 4.1
- ▶ Text clarified that needs to be segregated according to primary hazard, in addition to Division 1.4

## ▶ Segregation for Uranium hexafluoride, UN2977, UN2978 and UN3507

- ▶ Updated to reflect recent addition of Division 6.1 subsidiary hazard
- ▶ UN2977 and UN2978 - separate from Division 5.1 and as for class 7
- ▶ UN3507 - as for Class 8

## ▶ Segregation Groups

- ▶ SGG codes introduced
- ▶ Shown in 3.1.4.4 and in Column 16b of Dangerous Goods List



# Packing Instructions

- ▶ P200 and P206 - Terminology - for “liquid phase” and “liquid component” generally replaced by “liquefied gas”
- ▶ P403 - PP31 requires hermetically sealed packagings. Existing exception for solid fused material has been deleted
- ▶ P410 - Use of bags (5H2, 5H4, 5L3, 5M2) clarified that when used for packing group II substances, they may only be transported in closed cargo transport units

# Special Provisions

- ▶ SP363 - UN3528, UN3529 and UN3530 - Engines/Machinery...
  - ▶ Re-formatted
  - ▶ UN3530 (Class 9) - containing > 60L and capacity > 3000L requires Marine Pollutant mark to be 250mm x 250mm
- ▶ SP973 (NEW) - Various UN numbers, including Hay, Wet cotton, Copra, Fish meal, Seed cake
  - ▶ Text regarding marking for UN number and proper shipping name etc moved from SP29
- ▶ SP974 (NEW) - For gases permitted in IMO type 9 tanks



# Road Gas Elements Vehicles for Compressed Gases

- ▶ IMO Type 9 tanks introduced (battery-vehicles for compressed gases)
  - ▶ Reference included in Chapter 4.2
  - ▶ New section added in Chapter 6.8.3.4
  - ▶ Approval by competent authority for road transport
  - ▶ Certificate by competent authority for sea transport attesting compliance and listing allowed gases
  - ▶ SP974 permits use for:
    - ▶ UN1016 Carbon monoxide, compressed
    - ▶ UN1046 Helium, compressed
    - ▶ UN1049 Hydrogen, compressed
    - ▶ UN1971 Methane, compressed or Natural gas, compressed

# Marking and Labelling/Placarding

- ▶ UN3537 to UN3548 - Articles containing [dangerous goods]
  - ▶ Unlike ADR, if the article also includes a lithium battery, the lithium battery mark or hazard label is required (5.2.2.1.13)
  - ▶ Orientation arrows required if needed to ensure liquid s remain in intended orientation
- ▶ Chapter 5.3 - Title and text changed to Placarding and marking of cargo transport units and bulk containers ...
- ▶ Bulk containers - Placarding:
  - ▶ Closed/sheeted bulk containers - as per freight containers (1 on each side and 1 on each end)
  - ▶ Flexible bulk containers - "in at least two opposing positions"



# Documentation

- ▶ Terminology - “dangerous goods declaration” changed to “dangerous goods transport document”
- ▶ Temperature control - Chapter 5.4.1.5.5 clarified that only self-reactive substance, organic peroxide or polymerizing substance that require temperature control need the control temperature and emergency temperature shown on the document.
- ▶ Documents required aboard the ship - clarification that for excepted packages of radioactive material, the ship shall have a special list, manifest or stowage plan



# Transport Operations

- ▶ Class 1 - UN0124 and UN0494

- ▶ New provisions introduced for transport to offshore platforms, drilling units and other installations
- ▶ May be stowed on deck in offshore well tool pallets, cradles or baskets, subject to conditions

- ▶ Stowage of stabilized dangerous goods

- ▶ New Chapter 7.1.4.7 added - Stowage Category D and SW1 applies



# Transport Operations

- ▶ Cargo transport units under temperature control (Chapter 7.3.7)
  - ▶ Substantial changes to layout and content of text
- ▶ Stowage and segregation on containerships - containers with flammable gases/liquids  $<23^{\circ}\text{C}$  c.c flashpoint:
  - ▶ Clarification that 2.4m stowage away from sources of ignition includes vertical separation

# 2020 Edition

Amendment 40-20

Voluntary use from 1 January 2021

Mandatory from 1 January 2022



# Future work of the IMO CCC Sub-Committee

- ▶ Fumigated Cargo Transport Units - UN3359
- ▶ Transport of Medical waste, Category A
- ▶ Data loggers and tracking devices
- ▶ Special Provision 76 - substances that require special authorization
- ▶ Prohibition on filling or discharging while on-board





# Future work of the IMO CCC Sub-Committee

- ▶ Flashpoint information on dangerous goods transport document
- ▶ UN1402 Calcium carbide - Special Provision 951
- ▶ Stowage of Class 1, 12m from living quarters, life-saving appliances and areas with public access

# Thank you

