

# 2020 GLOBAL SULPHUR LIMIT

## HISTORY, CURRENT STATUS, AND THE INTERNATIONAL MARITIME ORGANIZATION'S (IMO'S) WORK PLAN FOR EFFECTIVE IMPLEMENTATION

Marshall Islands Registry and Korean Industry Stakeholders Seminar

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# INTRODUCTION

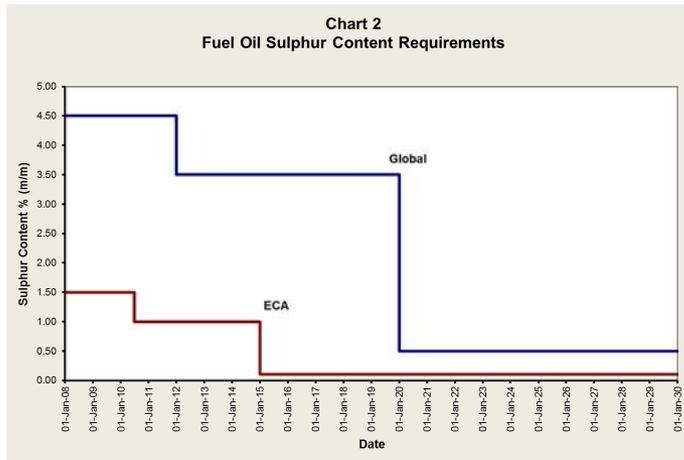
- History
  - Regulatory Perspective
  - International Convention for the Prevention of Pollution from Ships (MARPOL) Annex VI Regulation 14.1.3 (2020 vs. 2025)
- Current Status
  - Summary of efforts underway at the IMO
  - Recent Outcomes (Sub-Committee on Pollution Prevention and Response (PPR) 5 / Marine Environment Protection Committee (MEPC) 72)
- Future Work Plan



# HISTORY

## Protocol of 1997 (MARPOL Annex VI)

- Assembly Resolution A.719(17) – Prevention of Air Pollution from Ships
- Adopted at the Air Pollution Conference in September 1997
- Entered into force on 19 May 2005



## 2008 Revision

- Work began after entry into force – agreed at MEPC 53 (July 2005)
- Progressive reductions
- Adopted at MEPC 58 (April 2008)
- Entered into force on 1 July 2010



# REGULATION 14.8 – REVIEW PROVISION OF 0.50% FUEL OIL SULPHUR LIMIT

8 A review of the standard set forth in [Regulation 14.1.3] shall be **completed by 2018** to determine the availability of fuel oil to comply with the fuel oil standard set forth in that paragraph and shall take into account the following elements:

- .1 the global market supply and demand for fuel oil to comply with [Regulation 14.1.3] that exist **at the time that the review is conducted**;
- .2 an analysis of the trends in fuel oil markets; and
- .3 any other relevant issue.

9 The Organization shall establish a group of experts, comprising representatives with the appropriate expertise in the fuel oil market and appropriate maritime, environmental, scientific and legal expertise, to conduct the review referred to in paragraph 8 of this regulation. The group of experts shall develop the appropriate information to inform the decision to be taken by the Parties.

10 The Parties, based on the information developed by the group of experts, may decide whether it is possible for ships to comply with the date in paragraph 1.3 of this regulation. If a decision is taken that it is not possible for ships to comply, then the standard in that paragraph shall become effective on 1 January 2025.



# MEPC 70 (OCTOBER 2016)

## Effective date for Regulation 14.1.3

- Decision to retain 1 January 2020 as the effective date
- Concerns regarding consistent implementation
  - MEPC 70/5/2
  - Level playing field
  - Fuel oil quality and ship safety
- Tasked PPR 4 (January 2017) to prepare justification and scope for a new output on the effective implementation of Regulation 14.1.3

## Resolution MEPC.280(70)

RESOLUTION MEPC.280(70)  
(Adopted on 28 October 2016)

### EFFECTIVE DATE OF IMPLEMENTATION OF THE FUEL OIL STANDARD IN REGULATION 14.1.3 OF MARPOL ANNEX VI

THE MARINE ENVIRONMENT PROTECTION COMMITTEE,

RECALLING Article 38(a) of the Convention on the International Maritime Organization concerning the functions of the Marine Environment Protection Committee conferred upon it by international conventions for the prevention and control of marine pollution from ships,

RECALLING ALSO that the revised MARPOL Annex VI entered into force on 1 July 2010,

RECALLING FURTHER that regulation 14.1.3 of MARPOL Annex VI stipulates that the sulphur content of any fuel oil used on board ships shall not exceed 0.50% m/m on or after 1 January 2020,

RECALLING that regulations 14.8 to 14.10 of MARPOL Annex VI require that a review shall be completed by 2018 to determine the availability of fuel oil to comply with the fuel oil standard set forth in regulation 14.1.3 of MARPOL Annex VI,

NOTING that an assessment of fuel oil availability has been completed to inform the decision to be taken by the Parties to MARPOL Annex VI in accordance with regulation 14.10 of MARPOL Annex VI,

HAVING CONSIDERED, at its seventieth session, based on the aforementioned assessment of fuel oil availability, whether it is possible for ships to comply with the implementation date in regulation 14.1.3 of MARPOL Annex VI,

1 DECIDES that the fuel oil standard in regulation 14.1.3 of MARPOL Annex VI shall become effective on 1 January 2020;

2 REQUESTS the Parties to MARPOL Annex VI and other Member Governments to bring this decision to the attention of shipowners, ship operators, refinery industries and any other interested groups;

3 REQUESTS the Secretary-General to notify all Parties to MARPOL Annex VI of the aforementioned decision;

4 REQUESTS ALSO the Secretary-General to notify all Members of the Organization which are not Parties to MARPOL Annex VI of the aforementioned decision.

...



# MEPC 71 (JULY 2017)

## Consistent implementation of Regulation 14.1.3 of MARPOL Annex VI

- Agreed to establish a new output
- Target completion year 2019
- Scope prepared by PPR 4 (PPR 4/WP.6, Annex 5, Paragraph 13)
  - Included item on safety implications (blending fuels to meet the 0.50% m/m sulphur limit) as requested by Maritime Safety Committee (MSC) 98
- Instructed PPR to report identified safety issues to MSC
- Requested ISO to consider framework of ISO 8217
- Approved holding an intersessional meeting in the second half of 2018



# CURRENT STATUS



# PPR 5 OUTCOME

## Work Plan:

- Guidelines for consistent implementation of Regulation 14.1.3 of MARPOL Annex VI (Implementation Guidelines) - single set
- Consequential amendments to MARPOL Annex VI
  - Definition of “sulphur content” (Regulation 2)
  - Testing and verification procedures (in-use fuel samples – Regulation 14/18)
- Amendments to existing related guidelines
  - 2009 Guidelines for port State control (PSC) under the revised MARPOL Annex VI (Resolution MEPC.181(59))
  - 2010 Guidelines for monitoring the worldwide average sulphur content of fuel oils supplied for use on board ships (Resolution MEPC.192(61), as amended by Resolution MEPC.273(69))
  - Guidelines for onboard sampling for the verification of the sulphur content of the fuel oil used on board ships (MEPC.1/Circ.864)



# PPR 5 OUTCOME (continued)

## Outline for the Implementation Guidelines:

- Preparatory and transitional issues
  - Ship implementation planning for 2020 / preparation of steam ships
- Impact on fuel and machinery systems
- Verification issues and control mechanism and actions
  - PSC / sample analysis / remote sensing and enforcement practices (open-sea)
- Fuel oil non-availability
  - Fuel Oil Non-Availability Report (FONAR) / situational guidance
- Safety implications (option of blending fuels)
- Other useful guidance / information
  - Quality and availability issues
  - Best practices (purchasers / users / suppliers / Member States)



# PPR 5 OUTCOME (continued)

## Prohibition on the Carriage of Non-Compliant Fuel Oil

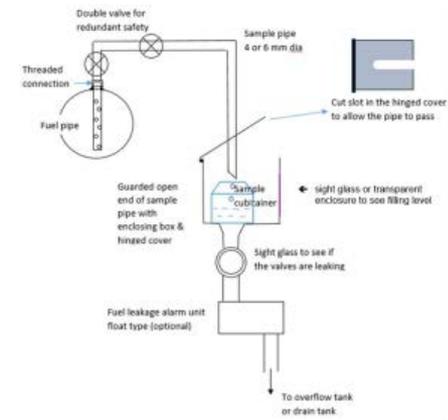
- PPR 5/13/2 (Cook Islands and Norway) / PPR 5/13/4 (ICS, et al.)
- Not included in work plan (urgent matter)
- Draft amendments finalized by Working Group (including clean-up):
  - “The sulphur content of any fuel oil used or carried for use on board ships shall not exceed the following limits:... 0.50% m/m.”
- Definition of fuel oil (Regulation 2.9 of MARPOL Annex VI):
  - “*Fuel oil* means any fuel delivered to and intended for combustion purposes for propulsion or operation on board a ship, including gas, distillate and residual fuels.”
- Some reservations



# PPR 5 OUTCOME (continued)

## In-Use Fuel Sampling

- Draft amendments to Regulation 14
- Adequacy of MEPC.1/Circ.864
- Forwarded to Intersessional Working Group  
(Added to TOR)



Suggested Sampling Arrangement

## Intersessional Working Group Meeting on Consistent Implementation of Regulation 14.1.3 Of MAROL Annex VI

- Terms of reference developed
- Requested MEPC to authorize the Intersessional Working Group to report directly to MEPC 73 its outcome concerning guidance on ship implementation planning for 2020



# MEPC 72 OUTCOME

## Amendments to Regulation 14 (Prohibition on the Carriage of Non-Compliant Fuel Oil):

- Amendments approved, view to adoption at MEPC 73 (October 2018)
- PPR 5 text revised:
  - “The sulphur content of fuel oil used or carried for use on board a ship shall not exceed 0.50% m/m.”
- Entry into force to be determined at adoption – earliest 1 March 2020 (concerns raised)

## Intersessional Working Group Authorized:

- Report directly to MEPC 73 its outcome concerning guidance on ship implementation planning for 2020
- All other outcomes will be reported to PPR 6 (February 2019)



# FUTURE WORK PLAN

Intersessional Working Group (July 2018)

- Terms of reference:
  - Develop draft Implementation Guidelines (based on the outline prepared at PPR 5 – PPR 5/WP.6, Annex 5)
  - Develop draft amendments to MARPOL Annex VI
    - Definition of “sulphur content” (Regulation 2)
    - Testing and verification procedures (in-use fuel samples – Regulation 14/18)
  - Develop draft amendments, as appropriate, to existing Guidelines
  - Regarding output on dedicated sampling points for fuel oil
    - Develop draft amendments to Regulation 14 of MARPOL Annex VI (PPR 5/12)
    - Consider need for new guidelines or revising the existing Guidelines (MEPC.1/Circ.864)
- Report to PPR 6 / MEPC 73



# FUTURE WORK PLAN (continued)

## MEPC 73 (October 2018)

- Adopt Amendments to Regulation 14 (Prohibition on Carriage of Non-Compliant Fuel Oil) – expected entry into force no earlier than 1 March 2020
- Action on outcome reported from Intersessional Working Group

## PPR 6 (February 2019)

- Finalization of remaining items from work plan / Intersessional Working Group outcome

## MEPC 74 (May 2019)

- Action on remaining items finalized at PPR 6
  - Approval of draft amendments to MARPOL Annex VI (subsequent adoption at MEPC 75 with entry into force in summer 2021)

## MSC 101 (June 2019)



# THANK YOU



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