

**Arab Republic of Egypt
Ministry of Transport
Maritime Transport Sector and
The Egyptian Authority for Maritime Safety**

**SAFEMED III
Seminar on MARPOL Annex VI
EMSA'S Premises
Lisbon, Portugal
29-30 April 2014**

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MARPOL Annex VI
National Flag

- Egyptian flag



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MARPOL Annex VI National Flag cont.

- Egypt has always been keen to accede to IMO conventions related to maritime safety and pollution prevention.
- Egypt acceded to MARPOL Convention and its first five annexes .
- Egypt has not acceded to MARPOL Annex VI yet but tries to comply with its requirements.

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MARPOL Annex VI National Flag cont.

- All ships flying the Egyptian flag of 400 gross tonnage and above operating on international voyages are inspected by one of the classification societies on behalf of the Egyptian Government to check their fulfillment of Annex VI operational requirements and thus avoid their detention when inspected by port state control.

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MARPOL Annex VI National Flag cont.

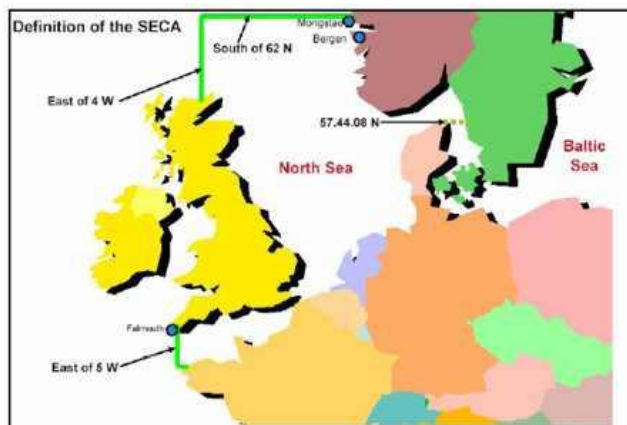
- After inspection the following documents of compliance are issued for valid ships to be carried on their boards to avoid detention:
 - Air Pollution Prevention DOC,
 - Supplement to air pollution prevention DOC,
 - Ship Energy Efficiency DOC after reviewing the ship energy management plan(SEEMP),and
 - Supplement to ship energy efficiency DOC .

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MARPOL Annex VI

Main trading routes: going into Sulphur Emission Control Areas (SECAs)

- **Baltic Sea and North Sea areas**



MARPOL Annex VI

Main trading routes: going into Sulphur Emission Control Areas (SECAs) con.

- Emission Control Areas (ECAs)**

Special areas	Adopted	Date of entry into force	In effect from
Baltic sea (SOx)	26 Sept 1997	19 May 2005	19 May 2006
North sea (SOx)	22 Jul 2005	22 Nov 2006	22 Nov 2007
North American (SOx, and Nox and PM)	26 Mar 2010	1 Aug 2011	1 Aug 2012
United States Caribbean sea area (SOx, NOx and PM)	26 Jul 2011	1 Jan 2013	1 Jan 2014

MARPOL Annex VI

Main trading routes: going into Sulphur Emission Control Areas (SECAs) con.

Sulphur limits for fuel in SECA

prior to 1 July 2010	1.50% m/m
on and after 1 July 2010	1.00% m/m
on and after 1 January 2015	0.10% m/m

Sulphur limits for fuel in other sea areas

prior to 1 January 2012	4.50% m/m
on and after 1 January 2012	3.50% m/m
on and after 1 January 2020*	0.50% m/m

* depending on the outcome of a review, to be concluded in 2018, as to the availability of the required fuel oil, this date could be deferred to 1 January 2025

MARPOL Annex VI

Sulphur Emission Control Areas (SECAs)

- Main Trading Routes: ships flying Egyptian flag of gross tonnage 400 tons and above , which carry on board the aforementioned DOCs, use engines and fuels in compliance with the requirements of going into SECAs.
- Egypt has not defined any SECAs in its waters yet.

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MARPOL Annex VI

Air Quality Problems in Port Cities

- Combustion of fuel in an engine results in the following emissions:
 - Nitrogen Oxide (NOx)
 - Problems:
 - Acid rain which damages crops and buildings - smog - ozone formation - reduces lung function - respiratory problems
 - Sulphur Oxides (SOx)
 - Problems:
 - Acid rain which damages crops and buildings - respiratory problems.

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Marpol Annex VI

Air Quality Problems in Port Cities

➤ Carbon Dioxide (CO₂)

Problems:

Greenhouse Gas (global warming)

➤ Particulate Matter (PM)

Problems:

Lungs – cardio and vascular

➤ Carbon Monoxide (CO)

Problems:

reduces the flow of oxygen in the bloodstream

➤ Hydrocarbons (HC)

problems:

ozone formation - smog - damages the lungs

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MARPOL Annex VI

Outstanding barriers for not ratifying

MARPOL Annex VI

- Non of the concerned bodies in Egypt objects to ratifying MARPOL Annex VI.
- Suez canal wants to be exempted from Annex VI regulations because it is considered an international waterway according to Constantinople Convention to which it is a party.
- Relevant procedures to ratify Annex VI are being taken by all concerned bodies waiting for the legislative council to approve it.

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MARPOL Annex VI

Already existing national laws similar to MARPOL Annex VI Regulations

The following Egyptian laws address air pollution:

- Law No. 59 / 1960
- Law No .66 / 1973
- Law No. 380 /1975
- Law No. 55 /1977
- Law No. 3 /1982
- Law No. 4 /1994
- Law No. 52 /1981
- Law No. 9 of 2009 for amending some provisions of Law No. 4 of 1994

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Specific assistance needed to speed-up ratification process

- Technical assistance with regards to :
 - Training inspectors
 - Similar seminars and training courses to increase awareness of the importance of accession to MARPOL Annex VI and to help in solving problems related to ratification.

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Specific assistance needed to speed-up ratification process cont.

- Legal assistance related to ways of incorporating Annex VI provisions into national laws and legislations.

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Specific assistance needed to speed-up ratification process cont.

- Financial assistance if possible to:
 - Buy adequate devices for measuring pollution percentages .
 - Establish the required reception facilities in ports to satisfy Annex VI requirements.

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Support From other SAFEMED III beneficiary countries needed?

- Exchange of technical experience and information especially from those who had similar obstacles yet they were finally able to overcome them and ratify Annex VI.

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Thank you for attention

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