Polizei Hamburg wir informieren (barrierefreie Leseversion)

WIR INFORMIEREN REGULATIONS FOR THE PREVENTION OF AIR POLLUTION FROM SHIPS

Ship's documents / papers

I International Air Pollution Prevention Certificate - IAPP – Certificate for any ship of 400 gross tonnage and above (for a non-signatory-state - Statement or Document of Compliance)

I Engine International Air Pollution Prevention Certificate – EIAPP-Certificate for each Marine Diesel Engine with a power output more than 130 kW in-

stalled aboard ships constructed on or after 1 January 2000 and technical files (exemptions for life boats and emergency diesel engines)

I Manuals for each installed and approved incinerator – MEPC.59(33), MEPC.76(40) –

I Written form of fuel oil Changeover Procedure (COP)

Sulphur content of fuel oil

Limitation of sulphur content in any fuel oil used aboard ships

Inside Emission Control Area (ECA)

At present Baltic Sea and North Sea, North America, US-Caribbean Sea (from 1 January 2013)

I 1.00 % – from 1 July 2010

I 0.10 % – from 1 January 2015

Outside Emission Control Area (ECA)

I 3.50 % – from 1 January 2012

I 0.50 % – from 1 January 2020

I alternative:

Usage of an approved exhaust cleaning system to reduce ships SOx emissions (see page 6)

EU-Sulphur-Directive

Use of fuel within European ports

I Directive 1999 / 32 / EC amended by 2012 / 33 / EC lay down that ships at berthes which are securely moored or at anchor in a Community ports have to use fuel oil which does not exceed

0.1% m/m sulphur content

I Each change over operation has to be recorded in an official record book, for example engineers log book, ship's log book etc.,

Exemptions are possible for ships:

I which are due to be at berth for less than two hours (according to published timetables)

I which switch off all engines and use shore side electricity supply while at berth in ports

I using an approved exaust gas cleaning system

Additional requirements are implemented in all European ports (observe notice to mariners)

For example in the port of Hamburg:

□ change	Not later than 2 hours after the ship has been moored securely the eover procedure has to be completed	
	Usage of fuel oil with a sulphur content does not exceed 0.1 % has to	
be ensured until 20 minutes before leaving berth		

Change Over Procedure (COP)

I Upon entry the ECA's it has to be ensured that the sulphur content of the fuel oil does not exceed 1.0 % (from 01 January 2015 - 0.10%)

I The COP on board of the ship depends on the construction of the ship (number, capacity and design of tanks, kind of fuel oil and lubricating oil etc.)

I Each ship has it's own change over manual which has to be observed by the responsible officer

Record of the change over operation:

I Any change over operation of fuel oil has to be recorded in an official document as prescribed by the administration (for example: engine log book, ship's log book, oil record book etc.)

I The follo	owing data	have to be recorded:
	The	amount of Low Sulphur Fuel Oil (LSFO) in each tank
	Date	, time and ship's position at the beginning and at the end of the COP
Exhaus	t Gas C	eaning – System (EGC-System)
(equivalents as per regulation 4)		
fuel-chan		Exhaust Gas Cleaning System (EGC-system) is installed and used, a rocedure to achieve the sulphur-limits inside an ECA (Emission Control ary.
board) ar	nd has to n	em needs to be type approved (Type Approval Certificate has to be on neet the test-standards as per IMO-Resolution MEPC.184(59). An on in the IAPPC-supplement is required.
I Require	d docume	nts:
	SOx	-Emissions Compliance Plan – SECP – approved by the Administration
S	SOx- cheme A)	-Emissions Compliance Certificate – SECC (only for units according to
	Onbo	oard Monitoring Manual – OMM
	EGC	-system-Record-Book (further details see below)
	EGC	-systemTechnical Manual – ETM (depending on the system used)
	-	ETM Scheme A, or
	-	ETM Scheme B
I Records	s in the EG	CS-Record-Book:
□ in	resid	ues generated by EGC-systems shall not be discharged to the sea or on board
□ di		ship fitted with an EGC-system should record the storage and the washwater residues in an EGCS-record-book (may form part of an

existing log-book or electronic-recording-system as approved by the Administration)

		the following data have to be recorded:
		- date, time and ship's position when residues were stored on board
		- date, time and location (i.e. port) when residues were disposed ashore
Energ	gy Effi	ciency (new chapter 4)
Provis	ions of ı	new chapter 4 applies to ships of 400 gross tonnage and above:
	I every	new ship:
		building contract on or after 1 January 2013
		keel is laid on or after 1 July 2013
		delivery on or after 1 July 2015
that th	•	existing ship which has undergone a major conversion that is so extensive regarded by the Administration as a newly constructed ship
it appli	es to fo	llowing types of ships:
		Bulk carrier ☐ Gas carrier
		Tanker □ Container ships
		General cargo ships □ Refrigerated cargo carrier
		Combination carrier Passenger ships
		Ro-ro ships
except	tions: Di	esel-electric propulsion, Turbine propulsion or Hybrid propulsion
I Requ	iirement	S:
		calculation of an Energy Efficiency Design Index – EEDI
		- for every new ship
		- for every existing ship which has undergone a major conversion
		EEDI-Technical File
		International Energy Efficiency Certificate – IEEC
		- for every new ship
		- for every existing ship not later than the first intermediate or
		- renewal survey after 1 January 2013
		Ship Energy Efficiency Management Plan – SEEMP
		- for every new ship

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Bunkering of fuel oil

Quality of fuel oil

Any delivered fuel oil has to meet the requirements of Regulation 18.1

Sampling of fuel oil

The sampling has to be carried out in compliance with the IMO-Resolution MEPC 182(59).

The sample has to be:

I taken at the ship's inlet bunker manifold

I drawn continuously throughout the bunker delivery period

I drawn with a:

manual valve-setting continuous-drip sampler
time-proportional automatic sampler or
flow-proportional automatic sampler

I taken in a clean and dry sampler -at least 400 ml-

I sealed with an unique means of identification

I kept on board for at least 12 month

Labelling and storage of the samples

Each sample has to be labelled with a sticker including the following information

I Location at which and the method, by which the sample was drawn

I Date of commencement of delivery

I Name of bunkering boat/bunker installation

I Name and IMO number of the receiving ship

I Signatures and names of ship's and supplier's representatives

I Details of seal identification

I Bunker grade

The retained sample must be kept in a safe storage place outside the ship's accommodation, where personnel cannot be exposed to vapours emitted from the sample.

Moreover the sample must not be exposed to direct sunlight

Bunker De	elivery Note (BDN)	
I A BDN has	to be issued for any delivered fuel oil.	
I The data of	the BDN are defined in MARPOL 73 / 78 Annex VI – appendix V	
	Name and IMO number of the receiving ship	
	Port of bunkering	
	Date of commencement of delivery	
	Name, address, and telephone number of the marine fuel oil supplier	
	Product name	
	Quantity in metric tons	
	Density at 15°C kg/m³	
	Sulphur content (%m/m)	
	A declaration signed and certified by the fuel oil suppliers representative that the fuel oil supplied is in accordance with regulations 14.1 or 14.4 and 18.3	
I The BDN m	nust be kept on board and available for inspections for at least three years.	
I Each BDN	shall be accompanied by a representative sample	
Incinerati	on on board	
I Shipboard i	ncineration is exclusively allowed by means of an approved incinerator	
	Any incinerator installed on or after the 1 January 2000 shall be approved by the administration according to the IMO-Resolution MEPC 76(40)	
	Any incinerator installed on 1 January 1997 until 31 December 1999 has to be approved according to IMO-Resolution MEPC 59(33)	
I The inciner etc.)	ation of certain substances is prohibited (PCB's, exhaust gas cleaning residues	
I Operating manual		
	has to be held available at the incinerator – MEPC 76(40) –	
	has to be on board MEPC 59(33)	

I According to HELSINKI CONVENTION the incineration of sludge or other waste within the Baltic Sea is prohibited

MEPC 176(58) – further regulations

Ozon Depleting Substances

I		d ships constructed on or after 19 May 2005 installations containing ozone ing substances, other than hydro-chloro- fluorcarbons, are prohibited
l	Aboar	d ships constructed on or after 1 January 2020
	hydro-	chlorofluorcarbons are prohibited
I	Any sh	nip of 400 gross tonnage or above
		has to maintain a list of equipment containing ozone depleting substances
	□ Recore	having rechargeable systems has to keep an Ozone Depleting Substances d Book (regulation 12.6 i.c.w 12.7)
Nitrog	en Oxi	des
	Marine I	Diesel Engine with a power output of more than 130 kW installed aboard a ship with:
Tier I: 2010	Regula	ation 13.3 - when constructed on or after 1 January 2000 until 31 December
Tier II:	Regula	ation 13.4 - when constructed on or after 1 January 2011
Tier III	:Regula	ation 13.5.1 – when
		constructed on or after 1 January 2016 and
		operated inside an ECA
Measures taken by the Waterways Police		
I Insp form	ection o	of the certificates (IAPP / EIAPP / technical file) concerning the validity and
I Amo	ngst oth	ner things inspection of
		manuals and type approvals of the incinerators
		bunker delivery notes and the "MARPOL-samples" (including storage)
		documentations of the change over operations in official documents

I While carrying out bunker operations the police checks whether the procedures are in accordance with the regulations MEPC 182(59)

Penalties

The (German) Federal Maritime and Hydrographic Agency is authorized to fine violations of MARPOL Annex VI

Up to 50.000 EURO

Violations respecting the EU-Sulphur Directive can be fined

Up to 50.000 EURO

www.polizei.hamburg

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MARPOL 73 / 78 - Annex VI

EU Sulphur Directive (EU) 2016/802 Hamburg Waterways Police

Editor: Polizei Hamburg, WSP 02 Wilstorfer Straße 100

D-21073 Hamburg

Phone + 49 40 42 86-65 04 1

WSP02Fachstab@polizei.hamburg.de

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