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Marine Emission Control Area Plan for
Pearl River Delta, Yangtzy River Delta, Bohai Rim Area

《珠三角、长三角、环渤海（京津冀）水域
船舶排放控制区实施方案》

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Marine Emission Control Area Plan

for

Pearl River Delta, Yangtzy River Delta, Bohai Rim Area

This plan was developed for the implementation of the "People's Republic of China Air Pollution Prevention Law" to promote the development of green shipping and ship energy conservation and reduce emissions of air pollutants ship in key areas of our country.

1. Work Goals

Through the establishment of ship emissions of air pollutants control area (hereinafter referred to as "Emission Control Areas"), to control the ship sulfur oxides, nitrogen oxides and particulate matter emissions, improve ambient air quality of our coastal and river regions, in particular of port city, to lay the foundation of full control of marine emission pollution.

2. Principles

1) To highlight the key area of emission control.
2) To maintain the fair competition of ports, to encourage the core port to be the pilot.
3) Taking into account the intensity of the regional ship activity and the level of economic development.
4) Compliance with international law and national laws and regulations

3. Application

The plan applies to the ships navigating, at berth, operating within emission control area, except for military ships, sports boats and fishing vessels.

4. Emission Control Area

Based on the above goals and principles, the marine emission control area to be defined for Pearl River Delta, Yangtzy River Delta and Bohai Rim Area, and the core ports in the ECA are also determined as follows:

4.1 Pearl River Delta ECA

Water area boundary: Within the area enclosed by the line with points A, B, C, D, E, F. (Exclusive of Hong Kong and Macau)
A: Huizhou and the junction of the mainland coastline Shanwei
B: Zhentou Yan extension at 12 nautical miles
C: Jiapeng islands extension at 12 nautical miles
D: Weijia island extension at 12 nautical miles
E: Dafanshi island extension at 12 nautical miles
F: Jiangmen and the junction of the mainland coastline Yangjaing

The inland river water area: Guangzhou Dongguan, Huizhou, Shenzhen, Zhuhai, Zhongshan, Foshan, Jiangmen, Zhaoqing.

The core port in this ECA: Shenzhen, Guangzhou, Zhuhai Port.
4.2 ECA of Yangtzy River Delta

Water area boundary: Within the area enclosed by the line with points A, B, C, D, E, F, G, H, I, J.

A: Nantong and the junction of the mainland coastline Yancheng
B: Waikejiao island extension at 12 nautical miles
C: Sheshan island extension at 12 nautical miles
D: Reef extension at 12 nautical miles
E: Dongnan reef extension at 12 nautical miles
F: Liang xiong di island extension at 12 nautical miles
G: Yushan island extension at 12 nautical miles
H: Taizhou islands extension at 12 nautical miles
I: Taizhou and the junction of the mainland coastline Wenzhou extension at 12 nautical miles
J: Taizhou and the junction of the mainland coastline Wenzhou

The inland river water area: Nanjing, Zhenjiang, Yangzhou, Taizhou(Jiangsu), Nantong, Changzhou, Wuxi, Suzhou, Shanghai, Jiaxing, Huzhou, Hangzhou, Shaoxing, Ningbo, Zhoushan, Taizhou(Zhejiang).

The core port in this ECA: Shanghai, Ningbo-Zhoushan, Suzhou, Nantong Port.
4.2 ECA of Bohai Rim Area

Water area boundary: Within the area enclosed by the line from Weihai to Dandong.

The inland water area: Dalian, Yingkou, Panjin, Jinzhou, Huludao, Qinhuangdao, Tangshan, Tianjin, Cangzhou, Binzhou, Dongying, Weifang, Yantai.

The core port in this ECA: Tianjin, Qinhuangdao, Tangshan, Huanghua Port.
5. Emission Control Requirements

5.1 Starting from Jan 1, 2016, the ships should restrictively implement the existing international conventions and domestic laws and regulations for SOx, PM, NOx emission control. The core port with capability to authorise the compliance of the emission control requirement may voluntarily require ships at berth to use fuel with less than 0.5% sulphur content, or equivalent measures.
5.2 Starting from Jan 1, 2017, ships at berth (one hour after arrival and one hour before departure are exclusive) in core port within ECA should use fuel with less than 0.5% sulphur content.

5.3 Starting from Jan 1, 2018, ships at berth in all ports within ECA should use fuel with less than 0.5% sulphur content.

5.4 Starting from Jan 1, 2019, ships operating within ECA should use fuel with less than 0.5% sulphur content.

5.5 Before Dec 31, 2019, assessment of the effectiveness to be made for the above mentioned measures, and decide whether or not to conduct the actions below:

1) Ships operating within ECA to use fuel with less than 0.1% sulphur content.
2) Expand the ECA
3) Other further action

5.6 Ships can use shore power connection, clean energy, exhaust after-treatment or take alternative measures equivalent for emission control.

6. Supportive Measures

6.1 Strengthen organizational leadership
Transport authorities at all levels should strengthen organizational leadership and coordination, to detail task measures, clear of responsibilities. Actively coordinating relevant state departments and local governments introduced policies, development of technical standards. Promote information sharing, joint law enforcement, the establishment of supervision and management linkage mechanism, and jointly promote the effective implementation of the Emission Control Area plan.

6.2 Strengthen supervision and management
Maritime administration should organize research ship air pollution monitoring technology and constantly improve monitoring capabilities, promote air pollution monitoring. To establishment of supervision and inspection management mechanism, promote capability for equipment testing. Strengthen inspection of ship’s certificates for air pollution preventing and Oil Record Book, fuel supply and fuel quality documents. Urge ship inspection agencies to improve the inspection quality for marine engines and other related marine products. Carry out the verification of the effectiveness of alternative measures.

6.3 Strengthen the policy guidance
Transport authorities at all levels should actively coordinate the national
authorities and local government introduced incentives and support measures, Strengthening the production and supply of low sulfur fuel. For ships use of low sulfur fuel, shore power, ship upgrading and application of clean energy, the capital subsidy, convenient transportation and other incentives will be given.

6.4 To establish linkage mechanism with Hong Kong and Macao
Establish coordination mechanism and improve communication with Hong Kong and Macao Special Administrative Region. Strengthen linkage with Hong Kong and Macao in Pearl River Delta Emission Control Area. To coordinate emission control standards and implementation time, exchange of emission control applications, and the supervision and management experience to promote the integration of Hong Kong and Macao ship emissions control actions.
珠三角、长三角、环渤海（京津冀）水域
船舶排放控制区实施方案

为贯彻实施《中华人民共和国大气污染防治法》，推进绿色航运发展和船舶节能减排，减少船舶在我国重点区域的大气污染物排放，制定本实施方案。

一、工作目标
通过设立船舶大气污染物排放控制区（以下简称“排放控制区”），控制我国船舶硫氧化物、氮氧化物和颗粒物排放，改善我国沿海和沿河区域特别是港口城市的环境空气质量，为全面控制船舶大气污染奠定基础。

二、设立原则
（一）突出国家大气污染联防联控重点区域。
（二）维护区域港口公平竞争，鼓励核心港区先行先试。
（三）兼顾区域船舶活动密集程度与经济发展水平。
（四）遵守国际法和国内法律法规要求。

三、适用对象
本方案适用于在排放控制区内航行、停泊、作业的船舶，军用船舶、体育运动船艇和渔业船舶除外。

四、排放控制区范围
基于以上目标和原则，设立珠三角、长三角、环渤海（京津冀）水域船舶排放控制区，确定排放控制区内的核心港口
区域，具体如下：

（一）珠三角水域船舶排放控制区。

海域边界：下列 A、B、C、D、E、F 六点连线以内海域（不含香港、澳门管辖水域）。

A：惠州与汕尾大陆岸线交界点
B：针头岩外延12海里处
C：佳蓬列岛外延12海里处
D：围夹岛外延12海里处
E：大帆石岛外延12海里处
F：江门与阳江大陆岸线交界点

内河水域范围为广州、东莞、惠州、深圳、珠海、中山、佛山、江门、肇庆 9 个城市行政管辖区域内的内河通航水域。

本排放控制区内的核心港口区域为深圳、广州、珠海港。
图1 珠三角水域船舶排放控制区示意图

（二）长三角水域船舶排放控制区。

海域边界：下列A、B、C、D、E、F、G、H、I、J十点连线以内海域。

A：南通与盐城大陆岸线交界点
B：外磕脚岛外延12海里处
C：佘山岛外延12海里处
D：海礁外延12海里处
E：东南礁外延12海里处
F: 两兄弟屿外延12海里处
G: 渔山列岛外延12海里处
H: 台州列岛（2）外延12海里处
I: 台州与温州大陆岸线交界点外延12海里处
J: 台州与温州大陆岸线交界点

内河水域范围为南京、镇江、扬州、泰州、南通、常州、无锡、苏州、上海、嘉兴、湖州、杭州、绍兴、宁波、舟山、台州16个城市行政管辖区域内的内河通航水域。

本排放控制区内的核心港口区域为上海、宁波-舟山、苏州、南通港。
（三）环渤海（京津冀）水域船舶排放控制区。

海域边界：大连丹东大陆岸线交界点与烟台威海大陆岸线交界点的连线以内海域。

内河水域范围为大连、营口、盘锦、锦州、葫芦岛、秦皇岛、唐山、天津、沧州、东营、潍坊、烟台13个城市行政管辖区域内的内河通航水域。

本排放控制区内的核心港口区域为天津、秦皇岛、唐山、黄骅港。
图 3 环渤海（京津冀）水域船舶排放控制区示意图

五、控制要求

（一）自 2016 年 1 月 1 日起，船舶应严格执行现行国际公约和国内法律法规关于硫氧化物、颗粒物和氮氧化物的排放控制要求，排放控制区内有条件的港口可以实施船舶靠岸停泊期间使用硫含量 ≤0.5% m/m 的燃油等高于现行排放控制要求的措施。

（二）自 2017 年 1 月 1 日起，船舶在排放控制区内的核心港口区域靠岸停泊期间（靠港后的一小时和离港前的一小时除外，下同）应使用硫含量 ≤0.5% m/m 的燃油。
（三）自 2018 年 1 月 1 日起，船舶在排放控制区内所有港口靠岸停泊期间应使用硫含量≤0.5% m/m 的燃油。

（四）自 2019 年 1 月 1 日起，船舶进入排放控制区应使用硫含量≤0.5% m/m 的燃油。

（五）2019 年 12 月 31 日前，评估前述控制措施实施效果，确定是否采取以下行动：

1. 船舶进入排放控制区使用硫含量≤0.1% m/m 的燃油；
2. 扩大排放控制区地理范围；
3. 其他进一步举措。

（六）船舶可采取连接岸电、使用清洁能源、尾气后处理等与上述排放控制要求等效的替代措施。

六、保障措施

（一）加强组织领导。

各级交通运输主管部门应加强组织领导和协调，细化任务措施，明确职责分工；积极协调国家有关部门和地方政府出台相关政策，制定技术标准；推进信息共享，开展联合执法，建立监督管理联动机制，共同推动排放控制区方案的有效实施。

（二）强化监督管理。

海事管理机构应组织开展船舶大气污染监测技术研究，不断提高监测能力，推进船舶大气污染监测工作；建立监督检查管理工作机制，推进检测装备与能力建设；加强船舶防
止空气污染证书和油类记录簿、燃油供应单证及燃油质量的检查；督促船舶检验机构提高船舶发动机等相关船用产品检验质量；开展对替代措施有效性的核查。

（三）发挥政策引导作用。

各级交通运输主管部门应积极协调国家有关部门和地方政府出台相关激励政策和配套措施，加强低硫燃油的生产和供应，对船舶使用低硫燃油、岸电，船舶改造升级和应用清洁能源等实施资金补贴、便利运输等优惠措施。

（四）建立与港澳联动机制。

建立和完善与香港、澳门特别行政区沟通协调机制，加强珠三角水域船舶排放控制区工作与港澳的联动，协调排放控制标准和实施时间，交流排放控制措施应用和监督管理经验，推动与港澳船舶排放控制行动一体化。

Source: Ministry of Transport of People’s Republic of China
Website: http://www.moc.gov.cn/