

## Annex VI

Outlines international requirements for vessel air emissions and shipboard air pollution prevention measures. Annex VI entered into force for the United States on January 8, 2009. Starting on that date, U.S. ships operating anywhere and foreign-flag ships operating in United States waters must comply with the requirements set out in MARPOL Annex VI. (33 U.S.C. 1901(a) (4) & (5), 1902(a)(1)&(5), and 1907 (a), as amended by the Maritime Pollution Prevention Act of 2008 (MPPA), Pub.L. 110-280, 122 Stat 2611).

Annex VI sets limits on sulphur oxide (SO<sub>x</sub>) and nitrogen oxide (NO<sub>x</sub>) emissions from ship exhausts and prohibits deliberate emissions of ozone-depleting substances. These regulations include a global cap of 4.5% m/m on the sulphur content of fuel oil and calls on IMO to monitor the worldwide average sulphur content of fuel. A mandatory NO<sub>x</sub> Technical Code defines how vessels can achieve the set limits on NO<sub>x</sub> emissions.

Additionally, certain regions may be declared as Sulfur Emission Control Areas (SECA). In these areas, the sulphur content of fuel oil used on board ships must not exceed 1.5% m/m. Alternatively, ships must fit an exhaust gas cleaning system or use other technological methods to limit SO<sub>x</sub> emissions. The Baltic Sea and North Sea Areas have already been designated as SECAs.

Annex VI prohibits deliberate emissions of ozone depleting substances, which include halons and chlorofluorocarbons (CFCs). New installations containing ozone-depleting substances are prohibited. But existing installations containing hydro-chlorofluorocarbons (HCFCs) are permitted until 1 January 2020. The Annex also prohibits the incineration on board ships of certain products, such as contaminated packaging materials and polychlorinated biphenyls (PCBs).

North American Emission Control Area (ECA): The USCG and EPA have compiled this consolidated list of [FAQs](#) and associated responses from queries received since the implementation of the North American ECA. Also included at the end of the document is a list of questions received which are currently under review by the USCG/EPA. The USCG will update the [FAQs](#) on a monthly basis (or sooner) which will be identified by a revision date located at the top of the first page of this document. Questions may be submitted directly to [ECA-USflag@uscg.mil](mailto:ECA-USflag@uscg.mil) or [ECA-foreignflag@uscg.mil](mailto:ECA-foreignflag@uscg.mil). The email subject line should include the following text: Question regarding the North American ECA.

International Energy Efficiency (IEE) Certificate and Shipboard Energy Efficiency Management Plan (SEEMP): On July 15, 2011, the International Maritime Organization formally adopted Resolution MEPC.203(62), which amends MARPOL Annex VI. The requirements of MEPC.203(62) entered into force on January 1, 2013. The requirements of Annex VI Chapter 4 apply to any ship of 400 gross tonnage or more that engages in voyages to ports or offshore terminals under the jurisdiction of other Parties. The list of Parties to Annex VI may be found at <http://www.imo.org/About/Conventions/StatusOfConventions/Pages/Default.aspx> under the “Status of Conventions” link. U.S. vessels are not required to obtain an IEE Certificate if they are not engaged in voyages to nations that are party to Annex VI.



### **Protocol:**

If the USCG has reasonable cause to believe a ship, its owner, operator or person in charge, may be subject to a fine or civil penalty for a violation of Annex VI, the USCG may demand a LOU, bond or other surety satisfactory in lieu of revoking the vessel's customs clearance under 33 U.S.C. § 1908(e). The "reasonable cause" determination lies solely within the USCG's discretion and the LOU, bond, or other surety satisfactory will be to the satisfaction of the USCG. The USCG will collect the evidence to support the enforcement action and will cite to the specific APPS provision and Annex VI regulation that was violated.

### **Enforcement:**

Based on the evidence, the USCG may undertake enforcement action or may refer the matter to the EPA. Factors the USCG will use when determining whether to refer a matter to the EPA include, but are not limited to; repeat offenders with a previous NOV, evidence obtained from a case involving EPA fuel-sampling or other assistance, or egregious noncompliance of entering the ECA without compliant fuel onboard.

### **EPA referrals:**

Matters referred to the EPA involving a LOU, bond, or other surety satisfactory will be sent via registered mail, or other traceable mail delivery system. Notification of the referral will also be transmitted electronically to the USCG Office of Commercial Vessel Compliance (CG-CVC) and the USCG Office of Investigation (CG-INV). The receipt of evidence, along with the original LOU, bond, or the surety satisfactory, if applicable, constitutes the formal referral and triggers the EPA's authorities under 33 U.S.C. § 1907(b). The USCG will retain copies of the evidence and LOU, bond or other surety satisfactory at the local unit. All other matters referred to the EPA may be transmitted electronically, with CG-CVC and CG-INV carbon-copied.

For matters referred to the EPA with a LOU, bond, or other surety satisfactory, the EPA will initiate its enforcement process within 180 days. Further, the EPA will advise CG-INV quarterly on the status of all referred matters. In addition to the quarterly status update, for cases involving a LOU, bond, or other surety satisfactory, the EPA will immediately consult with the USCG if no enforcement action is anticipated or for any significant delay in the case. In conducting its enforcement, the EPA will consult with the USCG on issues of first impression.

In matters referred to the EPA, the USCG will include a point of contact at the local unit. For all other matters, including anything that arises prior to a referral, the EPA will coordinate with CG-CVC or CG-INV.

## FONARs:

Fuel Oil Non-Availability Reports (FONARs) are self-disclosures made by a vessel owner, operator or other authorized representative pursuant to MARPOL Annex VI, Regulation 18.2.4. In accordance with USCG and EPA policy, FONARs should be submitted electronically to the EPA via EPA's Central Data Exchange. The EPA will share the FONAR submittal information with the USCG upon the USCG's request. All FONARs received by EPA are considered matters "referred" to the EPA for purposes of investigation and/or enforcement action. The EPA will use its discretion to determine the appropriate enforcement action, including no action, on all FONARs received.

## Information Sharing and Assistance:

For all other Annex VI deficiencies related to fuel oil violations where the USCG does not take any enforcement action or refer to the EPA, CG-CVC will summarize the deficiencies monthly and transmit this report via email to designated individuals at the EPA for purposes of information sharing between the parties. This report does not constitute a referral.

Upon request of the EPA, the USCG will notify the EPA of a vessel's return to a U.S. port. Consistent with the MOU, the USCG and EPA will assist one another, including technical assistance, on a case-by-case basis when requested in writing pursuant to 14 U.S.C. § 141.

The following points of contact are provided in accordance with this referral protocol:

### USCG Office of Commercial Vessel Compliance (CG-CVC)

Chief, Foreign and Offshore Vessel Compliance Division (CG-CVC-2)

U.S. Coast Guard, Stop 7501

2703 Martin Luther King Jr. Ave., SE

Washington, DC 20593-7501

Phone: 202-372-1230

Email: [ECA-foreignFlag@uscg.mil](mailto:ECA-foreignFlag@uscg.mil) or [ECA-USFlag@uscg.mil](mailto:ECA-USFlag@uscg.mil)

### USCG Office of Investigations (CG-INV)

U.S. Coast Guard, Stop 7581

2703 Martin Luther King Jr. Ave., SE

Washington, DC 20593-7501

Phone: 202-372-1223

Email: [ECAViolation@uscg.mil](mailto:ECAViolation@uscg.mil)

### EPA Office of Civil Enforcement, Air Enforcement Division

USEPA Headquarters, William Jefferson Clinton Building

Office of Enforcement and Compliance Assurance Air Enforcement Division

Attn: National Marine Enforcement Coordinator

1200 Pennsylvania Avenue, N. W., Rm # 1117B

Washington, DC 20004

Phone: 202-564-5472

Email: [ECAEnforcement@epa.gov](mailto:ECAEnforcement@epa.gov)

Effective date:

This Revised Protocol will supersede and replace the previous referral protocol of February 21, 2014. This Revised Protocol is effective as of the signature of the parties below, and may be amended by mutual agreement between the EPA and the USCG.

Approved:



J. C. Burton  
Captain, U.S. Coast Guard  
Director of Inspections and Compliance



Phillip Brooks  
Director, Air Enforcement Division  
U. S. Environmental Protection Agency