

RESOLUTION MEPC.242(66)  
Adopted on 4 April 2014  
2014 GUIDELINES IN RESPECT OF THE INFORMATION  
TO BE SUBMITTED BY AN ADMINISTRATION  
TO THE ORGANIZATION COVERING THE CERTIFICATION  
OF AN APPROVED METHOD AS REQUIRED  
UNDER REGULATION 13.7.1  
OF MARPOL ANNEX VI

**ANNEX 1**

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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 (the Committee) conferred upon it by international conventions for the prevention and control of marine pollution from ships,

RECALLING ALSO that, at its fifty-eighth session, the Committee adopted, by resolution MEPC.176(58), a revised MARPOL Annex VI (hereinafter referred to as "MARPOL Annex VI") which significantly strengthens the emission limits for nitrogen oxides (NO<sub>x</sub>) in light of technological improvements and implementation experience,

NOTING that regulation 13.7.1 of MARPOL Annex VI requires notification to the Organization of an Approved Method certified by an Administration of a Party,

RECOGNIZING the need to develop guidelines to set forth the information to be submitted by an Administration to the Organization,

NOTING ALSO the 2014 Guidelines on the approved method process, adopted by resolution MEPC.243(66),

HAVING CONSIDERED, at its sixty-sixth session, the draft *2014 Guidelines in respect of the information to be submitted by an Administration to the Organization covering the certification of an Approved Method as required under regulation 13.7.1 of MARPOL Annex VI*, proposed by the Sub-Committee on Pollution Prevention and Response, at its first session,

1. ADOPTS the *2014 Guidelines in respect of the information to be submitted by an Administration to the Organization covering the certification of an Approved Method as required under regulation 13.7.1 of MARPOL Annex VI*, as set out in the annex to the present resolution;
2. INVITES Administrations to take the annexed Guidelines into account when notification of a new Approved Method is prepared;
3. REQUESTS the Parties to MARPOL Annex VI and other Member Governments to bring the annexed Guidelines to the attention of shipowners, ship operators, shipbuilders, marine diesel engine manufacturers and any other interested groups;
4. AGREES to keep these Guidelines under review in the light of experience gained with their application.

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## **1 PURPOSE**

These Guidelines are intended to assist an Administration by providing an outline of the information to be submitted to the Organization for inclusion in the notification of certification of an Approved Method as required under regulation 13.7.1 of MARPOL Annex VI.

## **2 INFORMATION TO BE SUBMITTED TO THE ORGANIZATION**

### **2.1 Contents of the information to be submitted**

The notification to the Organization of the certification of an Approved Method should include, but is not limited to:

- .1 the certification reference of the Approved Method together with details of the Approved Method;
- .2 a copy of the Approved Method File, or where that is not possible, a sample of the File taking into account paragraph 2.2;
- .3 criteria for identification of the engines to which an Approved Method applies as specified in paragraph 2.3; and
- .4 Approved Method contact point.

### **2.2 A copy or sample of the Approved Method File**

2.2.1 In accordance with paragraph 7.4 of the NO<sub>x</sub> Technical Code 2008, the Approved Method File is an integral part of any Approved Method and should be authenticated by the application of the stamp of the certifying Administration. A copy of this Approved Method File should be included in the notification to the Organization.

2.2.2 However, in cases where, due to differences between individual engines at the time of manufacture, it is not possible to provide a copy of the Approved Method File as being representative of all engines to be covered by the specific Approved Method, a sample of the Approved Method File should instead be included in the notification to the Organization. This sample Approved Method File should contain sufficient detail that will make it possible to correlate with the actual Approved Method File to be supplied for individual engines.

2.2.3 In cases where a sample of the Approved Method File is included, the procedure for approval of individual Approved Method Files should be included in the notification. In all cases the authentication of the Approved Method File should be undertaken by the certifying Administration.

2.2.4 The Approved Method File should also include a description of the engine's onboard verification procedure, in accordance with paragraph 7.5 of the NO<sub>x</sub> Technical Code 2008.

2.2.5 A list of the onboard record keeping requirements for the Approved Method should be included.

## **2.3 Criteria for the identification of an engine to which an Approved Method applies**

2.3.1 Criteria for the identification of an engine to which a particular Approved Method applies should be included. This should also cover those cases where the current engine condition differs from the original engine condition at the time of manufacturing due to modifications either at the time of installation or subsequent modifications over its service life.

2.3.2 If the Approved Method developer knows the current condition of a particular engine, those parameters should be listed in the Approved Method File and the engine or engines to which it applies should be identified by engine make, type and serial number in the Approved Method File.

2.3.3 However, the developer of an Approved Method will usually not know the actual current engine condition. Consequently, the criteria which define an engine will relate to the original engine condition at the time of manufacturing. The criteria which define the applicability of a particular Approved Method should include the following items:

- .1 manufacturer/licensee, engine type and model;
- .2 application cycle(s) e.g. E2, E3, D2 or C1, as specified in chapter 3 of the NO<sub>x</sub> Technical Code 2008 as appropriate;
- .3 rated power (kW) and rated speed (rpm) as given on the nameplate or as modified by approved re-rating:
  - .1 the applicable power output/rated speed range is to be clearly shown whether these represent a "line" or a "box", the exception or inclusion on the boundary and any exceptions either inside or outside that boundary; and
  - .2 in addition, any potentially necessary calculation processes (for example between horsepower (metric/imperial) and kW) including the rounding method is to be clearly specified;
- .4 NO<sub>x</sub> critical components and how their identity should be established. Where there is a combination of components, it should be described how those are interrelated;
- .5 NO<sub>x</sub> critical settings or operating values and how those values should be established. Where there are combinations of settings, it should be described how these are interrelated. In addition, any potentially necessary calculation processes (for example to bring P<sub>max</sub> or P<sub>comp</sub> to the ISO specified condition), including the rounding method, is to be clearly specified; and
- .6 any other specific points which relate to engines to which the Approved Method applies.

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