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MEPC.1/Circ.921  
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## **GUIDANCE ON THE CONTENT OF THE ENGINE EMISSION TEST PLAN**

1 MEPC 82 (30 September to 4 October 2024) approved the *Guidance on the content of the Engine Emission test plan*, and requested the Secretariat to issue it as an MEPC circular when the amendments to the NO<sub>x</sub> Technical Code 2008 (NTC 2008) on certification of an engine subject to substantial modification or being certified to a Tier to which the engine was not certified at the time of its installation would enter into force.

2 MEPC 83 (7 to 11 April 2025), adopted, by resolution MEPC.398(83), amendments to the NTC 2008 on the certification of an engine subject to substantial modification or being certified to a Tier to which the engine was not certified at the time of its installation, which are expected to enter into force on 1 September 2026.

3 Considering that the Committee also invited the Parties to consider early application of the adopted amendments, the Guidance is hereby circulated, as set out in the annex.

4 Member Governments are invited to bring the annexed Guidance to the attention of shipowners, ship operators, engine manufacturers and other stakeholders concerned.

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## ANNEX

### GUIDANCE ON THE CONTENT OF THE ENGINE EMISSION TEST PLAN

The Engine Emission test plan referred to in paragraph 7.2.10 of NTC 2008 should address the points covered in this Guidance. Where particular arrangements require additional or alternative approaches to those covered below, they should be agreed in advance with the Administration.

Any updates or revisions which become necessary after having secured the initial agreement should be communicated to the Administration at the earliest opportunity for its consideration.

<b>1 Applicant</b>	
1.1	Name
1.2	Contact details
<b>2 Engine to be certified</b>	
2.1	Manufacturer
2.2	Model
2.3	Serial number
2.4	Existing certification (if applicable): engine approval number, test cycle(s), rated power and rated speed
2.5	Details of substantial modification
2.6	Requested certification: tier, test cycle(s), rated power and rated speed
<b>3 Engine emission test arrangements</b>	
3.1	Ship name and IMO Number
3.2	Engine emission test – intended start and end dates
3.3	Engine emission test to be undertaken while the ship is under way: Yes / No  If Yes: Voyage start – port and date Voyage end – port and date Likelihood of changes to the above If the Administration intends to attend the engine emission test – number of cabins / berths assigned for their use  If No: Port where engine emission test is to be undertaken Likelihood of change to the above
<b>4. Engine Emission test procedures</b>	
Specific checks related to the requirements of NTC 2008 chapter 5 and Appendices III and IV in respect of the exhaust gas measurement equipment and sampling arrangements, engine performance and ambient condition sensors, including calibration status, will be undertaken at the time of the engine emission test. It is the applicant's responsibility to ensure that all such documentation as required by NTC 2008 is available at the engine emission test.  In preparation for the engine emission test, the following information should be provided to the Administration as part of this engine emission test plan:	
4.1	Diagram showing the intended arrangement of exhaust gas measurement system to be used including the proposed locations of the exhaust gas sampling point and measurement equipment relative to the engine and engine-room arrangement

4.2	Details of how the brake power of the engine is to be measured, including a diagram illustrating the intended location of the point of measurement relative to the engine and power in/out devices
4.3	Where the maximum power to be measured at the engine emission test is not expected to be in the range of 90 to 100% MCR, but not less than 85% MCR, details are to be provided as to:  .1 why achieving power within that 90 to 100% range is not expected to be possible; .2 the maximum power that is expected to be achieved; and .3 justification of the declared rated power.
4.4	Details of how the load points of the test cycle(s) to be followed are to be achieved, including details on how the required engine loads are to be applied with the consistency and duration as required by NTC 2008 through, for example, the selection of the timing, ship loading and sea area in which the engine emission test is to be undertaken
4.5	Details of how the net fuel consumption of the engine is to be measured, including the intended approach to assessing any spill and leak rates, together with fuel system losses through such as filter blow-downs. A copy of the engine's fuel oil service system should also be provided and should include the intended location of fuel metering devices – either existing or installed for the specific purpose of the engine emission test
4.6	Details of the location of the sampling point in respect of the fuel oil to be used during the engine emission test
4.7	For engines using low-flashpoint or gas fuel, details of how the composition of the fuel oil(s) used in the engine emission test are to be determined, including proposed sampling points or other related arrangements
4.8	Details of any additional information which relates to the performance of the engine emission test or the procedures which will be followed