
	<p>HEALTH, SAFETY, ENVIRONMENT AND QUALITY MANAGEMENT SYSTEM</p> <p>24.0 TECHNICAL FILE</p> <p>TECHNICAL PROCEDURES MANUAL</p>	<p>Sect : 24.0 Page : 1 of 2 Date : 7-Aug-25 Rev : 10.0 Appr : DPA</p>
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TECHNICAL FILE

1. GENERAL


Every marine diesel engine installed on board a ship shall be provided with a Technical File. The Technical File shall be prepared by the applicant for engine certification and approved by the administration and is required to accompany an engine throughout its life on board ships.

A Technical File is a record containing all details of parameters, including components and settings of an engine, which may influence the NOx emission of the engine, in accordance NOx Code. An engine's Technical File shall contain all applicable information, relevant to the NOx emission performance of the engine, on the designated engines components, adjustable features, and parameters at the time of the engine's pre-certification or on-board certification, whichever occurred first.

The Technical File shall contain the information:

- a. identification of those components, settings and operating values of the engine which influences its NOx emissions including any NOx reducing device or system;
- b. identification of the full range of allowable adjustments or alternatives for the components of the engine;
- c. full record of the relevant engine's performance, including the engine's rated speed and rated power;
- d. a system of on board NOx verification procedures to verify compliance with the NOx emission limits during on board verification surveys in accordance with chapter 6 of NOx code;
- e. a copy of the relevant Parent Engine test data, as given in section 2 of appendix 5 of NOx Code;
- f. if applicable, the designation and restrictions for an engine which is an engine within an Engine Family or Engine Group;
- g. specifications of those spare parts/components which, when used in the engine, according to those specifications, will result in continued compliance of the engine with the applicable NOx emission limit; and
- h. the EIAPP Certificate, as applicable.
- i. The new EEXI file will now have details of the max operating parameters allowed on the main engine. The Engine Power Limiter (EPL) settings either mechanical or electronic will be a sealed item, password protected for Chief Engineering Officer use only. It is of absolute importance that these codes be kept very confidential, and the use of these codes and/or the breaking of any seals to override the new speed settings to be done only when in an emergency situation. The appropriate log entries to be made in both deck log and ER log books. The seal to be reinstated once the vessel is no longer in an emergency situation. The EEXI EPL set up on the engines will be have to be done before the next annuals due in 2023.¹

¹ W 02 / 2023

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2. RECORD BOOK OF ENGINE PARAMETERS (For Main and each auxiliary marine diesel engine)

A Record Book of Engine Parameters is the document used in connection with the Engine Parameter Check method for recording all parameter changes, including components and engine settings, which may influence NOx emission of the engine.

The ship owner or person responsible for a ship equipped with a marine diesel engine required to undergo an Engine Parameter Check method shall maintain on board the following documentation in relation to the on-board NOx verification procedures:

- Record Book of Engine Parameters for recording all changes including like for like replacements and adjustments within the approved ranges made relative to an engine's components and settings;
- Engine parameter list of an engine's designated components and settings and/or the documentation of an engine's load-dependent operating values submitted by an applicant for engine certification and approved by the Administration; and
- Technical documentation of an engine component modification when such a modification is made to any of the engine's designated engine components.
- Descriptions of any changes affecting the designated engine parameters, including adjustments, parts replacements and modifications to engine parts, shall be recorded chronologically in the Record Book of Engine Parameters. These descriptions shall be supplemented with any other applicable data used for the assessment of the engine's NOx levels.

NOx influencing components carry identification markings in accordance with the Technical File. Whenever replacement spares for NOx critical components are received on board a check must be made to ensure that they carry the required identification numbers.

Parts not marked with the required numbers must be reported to company and not put in use until required checks have been made with the manufacturers.

The technical file and record book shall be kept under chief engineer custody.

Reference: NOX TECHNICAL CODE (REG4SHIPS)