
	<p>HEALTH, SAFETY, ENVIRONMENT AND QUALITY MANAGEMENT SYSTEM</p> <p>10.0. REPAIR AND MAINTENANCE HISTORY</p> <p>TECHNICAL PROCEDURES MANUAL</p>	<p>Sect : 10.0 Page : 1 of 4 Date : 7-Aug-25 Rev : 10.1 Appr : DPA</p>
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REPAIR AND MAINTENANCE HISTORY

1. GENERAL

The historic details of repairs and maintenance to critical items of equipment are sometimes lost because of the transient nature of ships crews and consequently the same mistakes or difficulties are encountered repeatedly. It is therefore important to maintain a record summarising repairs and maintenance undertaken on each item of equipment that is critical to the operation of the ship e.g. main/auxiliary engines, steering gear, cranes , BWTS, hatch covers etc. This is to be recorded in [Mespas](#)¹.

A simple “Done” or “Completed” is not acceptable in [Mespas](#)².

The following should be included in the summary as appropriate:

- Brief details of the repair or maintenance carried out.
- Date, running hours etc.
- Wear down noted.
- Damage found.
- Parts replaced.
- Problems or difficulties encountered and what was done to resolve it.
- Modifications.
- Probable cause of any failure of equipment.
- Special tools required.
- Time required to complete the job.

This will assist the next man who needs to undertake this task.

The summary should be kept short and to the point.


2. MAIN ENGINE AND DIESEL ALTERNATOR NO_x & SO_x TECHNICAL FILES

Every marine diesel engine installed on board a ship is provided with a Technical File from the Engine Manufacturer. The Technical File is prepared by the Engine Manufacturer applicant for engine certification and is Type Approved by the Administration. The Technical File 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 NO_x emission of the engine, in accordance NO_x

¹ W 03 / 2024

² W 03 / 2024

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Code. An engine's Technical File shall contain all applicable information, relevant to the approved NOx emission performance parameters 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 contains the following information:


- Identification of those components, settings and operating values of the engine which influences its NOx emissions including any NOx reducing device or system;
- Identification of the full range of allowable adjustments or alternatives for the components of the engine;
- Full record of the relevant engine's performance, including the engine's rated speed and rated power;
- 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;
- A copy of the relevant Parent Engine test data, as given in section 2 of appendix 5 of NOx Code;
- If applicable, the designation and restrictions for an engine which is an engine within an Engine Family or Engine Group;
- 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
- The EIAPP Certificate, as applicable.

3. 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

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- 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)