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Application for support
for Service of SCR
systems under the NOx
Agreement 2018-2027

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Introduction 4

 Support for service of SCR systems on vessels and rigs 4

 Special requirements for emission measurement and service of SCR systems..... 5

 Requirements for measurement for new SCR systems supported by the NOx Fund 5

 Requirements for measurement after 5 years of operation..... 5

 Requirements for service..... 6

Introduction

The NOx Fund can provide support for the service and maintenance of SCR systems on vessels and mobile rigs. The scheme aims to help ensure the systems maintain their functionality and NOx-reducing effect throughout their service life.

The scheme covers, among other things, service work, replacement of wear parts and components, and measures that can improve the system's operation and cleaning efficiency. Support is granted retrospectively based on documented costs and within set limits and conditions.

Companies that have received investment support from the NOx Fund for SCR systems must also maintain the agreed NOx-reducing effect in accordance with the conditions of the declaration of accession. The service scheme supports this obligation and ensures that installed abatement systems function as intended over time.

Support for service of SCR systems on vessels and rigs

The NOx Fund has established this support programme to help ensure that SCR systems remain functional, and in particular that NOx reduction is maintained over time. However, companies must maintain the NOx-reducing effect until the end of 2027 for measures that received support from the NOx Fund, as stated in the declaration of accession (point 2d) that the company signed.

The support programme covers support for the following services for SCR systems on vessels and rigs:

- Inspections and adjustments of SCR systems carried out by external service personnel.
- Replacement of catalyst elements.
- Replacement of other components.
- Supplementing with new components.

The following applies to the scope of

support:

- Support of 50% of documented costs is granted, capped at an accumulated support of NOK 500,000 per vessel or rig within a rolling 5-year period based on when the service took place. Support is granted retroactively for up to 3 years, calculated from the application date back to the date the service was carried out.
- Support is granted within a total support framework of NOK 25 million for the years from 2019 up to and including 2027. The NOx Fund may consider expanding the framework and time period if needed.

The following conditions for support apply:

- Support is only given for SCR on ships, fishing vessels and rigs.
- Support is granted after the cost has been incurred.
- Support for service is granted a maximum of once per calendar year.
- Support for the replacement of catalyst elements and components in the SCR system is granted at most every 5 years.
- For support for new components not previously present on the system, it must be substantiated that this will improve the system's functionality.
- No support is given for service on Tier III certified engines with SCR that are not supported by the NOx Fund.

Special requirements for emission measurement and service of SCR systems

Requirements for measurement for new SCR systems supported by the NOx Fund

When installing a new SCR system, one of the following alternatives for determining the NOx factor shall be used:

1. NOx factor for the engine determined by measurement on board after the SCR system, with and without urea dosing.
 - a. Where several main and/or auxiliary engines of the same type are installed on a ship, it is sufficient that measurements from one engine are used as the basis for calculating the NOx factor for all identical engines.
 - b. If the emission factor is determined by a qualified party, the measurements shall be carried out in accordance with the NOx Technical Code 2008, 6.3 “Simplified measurement method”. For main engines, the emission factor shall be calculated based on the weighted values for the applicable test cycle. For auxiliary engines, the emission factor shall be measured and calculated at 50% engine load.
2. NOx factor before and after SCR shall be calculated on the basis of the EIAPP certificate and the associated NOx Technical File (applies only to TIER III certified engines).
3. To the extent that national or international rules and approval schemes are established for the installation and operation of continuous measuring equipment for NOx, such measurements can be used as a basis for reporting and self-declaration.

If the ship has several engines with different NOx factors, the ship's common NOx factor can be calculated by weighting according to installed power or average fuel flows. The NOx Fund shall be informed through the self-declaration, as well as upon any request for the data basis for quarterly reporting of NOx emissions.

The NOx Fund does not require measurement and service on Tier III certified engines with SCR.

Requirements for measurement after 5 years of operation

After 5 years of operation of the SCR system, or 5 years after the previous 5-year inspection, it must be documented that the system still functions satisfactorily, and one of the following requirements must be met, with corresponding documentation submitted to the NOx Fund:

1. Measurement on board: Measurement of NOx and NH3 emissions on all engines with an operating SCR system. Test one main engine at all load points, and test the remaining identical main engines at a representative load point. Test all auxiliary engines with SCR at 50% load. To avoid a large

proportion of the fleet risking non-approval during a transitional phase, the NH₃ limit is initially set at 40 ppm (at 15% O₂), with a long-term goal of reducing it to 20 ppm over time.

2. Service of SCR systems and limited measurement on board: A service report showing that the SCR systems have been inspected, service carried out, and that all engines with SCR systems are functioning. Service shall be carried out in accordance with the supplier's recommendations regarding scope and frequency. In addition, NO_x and NH₃ shall be measured with the SCR in operation on at least one main engine at 50-75% load and one auxiliary engine at 50% load. The measurement company shall select the engines from among those available for operation.
3. Continuous measurement: For all engines with SCR, the company must document that the continuous measurement system (for NO_x and, if applicable, NH₃) has had service and calibration carried out in accordance with the supplier's recommendations. Measurement results from the last reporting quarter must be available for presentation. In addition, an external competent party (e.g. the supplier) must confirm that the SCR systems and measuring equipment are functioning as they should.
4. EIAPP + NO_x Technical File: If the IMO and/or the Norwegian Maritime Authority develops a solution for the operational follow-up of TIER III requirements, the authorities can check that the system complies with and performs according to the EIAPP and the associated NO_x technical file. If the IMO does not facilitate this, the ship must use one of the other three alternatives.

For ships located outside Norwegian waters, the 5-year deadline can be postponed until the ship returns to permanent operation in Norway. The NO_x Agreement requires that NO_x measures operate in NO_x-tax-liable service, regardless of how long ago the measure was implemented.

Requirements for service

The company must keep documentation showing that SCR systems supported by the NO_x Fund follow the supplier's service recommendations. The documentation must be kept continuously updated and be available for presentation to the NO_x Fund upon request. The SCR supplier, a specialist in such services, or the company itself may carry out service and documentation preparation.

The NO_x Agreement requires that NO_x measures (including SCR) be operated in NO_x-tax-liable service. This is also specified in the commitment letter related to the NO_x Fund's support.

A dedicated application form is available on the NO_x Fund's website.