



TECHNICAL CIRCULAR No. 605 of 09th January 2020

To	All Surveyors/Auditors
Applicable to flag	All Flags
Title	EGCS Scheme A
Reference	Exhaust Gas Cleaning Systems

EGCS Scheme A

Scheme A

1. Survey process and data collection detailed in Survey Tracking Form A to be followed.
2. Copies of requested data to be forwarded to designated Technical Office responsible for review of the SOx EGCS. Scheme A SOx EGCS approvals to IMO guidelines originally intended to be undertaken at manufacturers testbed but may also be undertaken onboard. Data collected is to include details on the SOx EGCS, test facility/ship, measurement equipment, calibration data and test results.
3. Sample to be analyzed to establish composition and grade in accordance with ISO 8217 specification. Testing to be undertaken at maximum sulphur content to which the SOx EGCS is to be certified unless two tests on fuels with lower sulphur content are undertaken in accordance with IMO guideline recommendations.
4. Water discharge sample from washwater treatment system to be drawn at time of test and sent for nitrates analysis.
5. All measurement equipment calibration generally to be undertaken within 3 months of SOx EGCS testing unless a more frequent calibration period is required by the equipment manufacturer. Copies of calibration records to be collected.
6. Gaseous emissions measuring system to be leak tested prior to and on completion of the SOx EGCS testing. Initial and final analyzer zero and span checks to be undertaken. Calibration/span gas details to be collected.
7. Compliance verification with Annex VI Regulation 14 and the IMO guidelines requires only gaseous measurement of SO₂ and CO₂ species, however exhaust flow may be determined by carbon balance calculation from the NOx Technical Code and hence fuel consumption measurement together with (CO₂), CO and HC gaseous emissions measurements may need to be undertaken.

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8. The washwater pH value is to be verified to be not less than 6.5 measured at the ships overboard discharge or in the water plume at 4m from the overboard discharge, with corresponding value at the overboard discharge recorded. The plume/overboard values may be based on a calculated value in accordance with the IMO guidelines. This may be difficult to simulate at testbed.
9. Emissions testing should follow the general practices of the NOx Technical Code (NTC) Chapter 5. Emissions measurements should be undertaken at a minimum of four load points. One at 95-100% of the maximum exhaust gas mass flowrate to which the SOx EGCS is to be certified, one at load point within +/-5% of the minimum exhaust gas mass flowrate and two other points spaced equally between the maximum and minimum exhaust gas mass flowrates. Fuel oil sample(s) to be drawn at the time of the SOx EGCS testing and sealed.
10. Any SOx EGCS test data which is to be submitted by the manufacturer to be duly stamped or otherwise marked to ensure its authenticity.
11. The SOx EGCS installation is to be verified to be in accordance with the approved SECP, ETM-A and OMM.
12. Data for issue of the SECC will be advised by the designated Technical Office on completion of the review of the manufacturer's documentation.
13. For serially manufactured SOx EGCS, the units may be Surveyed in accordance with the agreed Conformity of Production arrangement.
14. Approval of a number of SOx EGCS units for Range Approval under Scheme A to be by agreed test plan by the designated Technical Office.

REFERENCES:

- Exhaust Gas Cleaning Systems, MEPC 259(68)
- ATTACHMENTS: No

Kindest Regards,

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