

Amendments of the Guidance for Approval of Manufacturing Process and Type Approval, Etc.

(For external opinion inquiry)

2023. 3.



Machinery Rule Development Team

– Main Amendments –

(1) Effective date : 1 Jul. 2023 (Date of the application for certification)

- Amended of Table 3.35.3 (ballast water treatment system operation and functional test items)

| Present | | | Reason | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------------|---------------------------------|--|-----------|--|---------------------------------|--------|---|--|------------------------------|--|----------------|------------|------------|--|----------------------------|------------|--|--|---|---|---------------------|--|---|---|
| <p>Table 3.35.3 Operational and functional test items (2021)</p> <table border="1"> <tr> <th colspan="2">Test item</th><th>Test requirements and test time</th><th>Remark</th></tr> <tr> <td colspan="2"><u>Requirement regarding alarm and stopping</u></td><td>Refer to Table 3.35.1</td><td></td></tr> <tr> <td rowspan="2">Operation test</td><td>TRC (100%)</td><td>60 minutes</td><td rowspan="2"> (1) Alarm and shutdown are not to be occurred. When alarm and shut down are activated, the test is to be performed again. (2) Operation test is to be carried out for both ballast and de-ballast mode. (A) For land-based testing, (a) Operational margin is $\pm 7\%$ of applicable treatment capacity. (b) TRC and Minimum treatment capacity are to be carried out for operation test. (c) Alarm and shutdown due to flow rate can be overridden for minimum treatment capacity. (B) For shipboard testing, (a) Operational margin is to be adjusted by agreement between the manufacturer and the Society considering the condition of the vessel. (b) TRC is to be carried out for operation test. </td></tr> <tr> <td>Minimum Treatment Capacity</td><td>30 minutes</td></tr> <tr> <td colspan="2">Emergency Operational test (bypass mode)</td><td>–</td><td>–</td></tr> <tr> <td colspan="2">Emergency stop test</td><td>–</td><td>–</td></tr> </table> | | | | Test item | | Test requirements and test time | Remark | <u>Requirement regarding alarm and stopping</u> | | Refer to Table 3.35.1 | | Operation test | TRC (100%) | 60 minutes | (1) Alarm and shutdown are not to be occurred. When alarm and shut down are activated, the test is to be performed again. (2) Operation test is to be carried out for both ballast and de-ballast mode. (A) For land-based testing, (a) Operational margin is $\pm 7\%$ of applicable treatment capacity. (b) TRC and Minimum treatment capacity are to be carried out for operation test. (c) Alarm and shutdown due to flow rate can be overridden for minimum treatment capacity. (B) For shipboard testing, (a) Operational margin is to be adjusted by agreement between the manufacturer and the Society considering the condition of the vessel. (b) TRC is to be carried out for operation test. | Minimum Treatment Capacity | 30 minutes | Emergency Operational test (bypass mode) | | – | – | Emergency stop test | | – | – |
| Test item | | Test requirements and test time | Remark | | | | | | | | | | | | | | | | | | | | | | |
| <u>Requirement regarding alarm and stopping</u> | | Refer to Table 3.35.1 | | | | | | | | | | | | | | | | | | | | | | | |
| Operation test | TRC (100%) | 60 minutes | (1) Alarm and shutdown are not to be occurred. When alarm and shut down are activated, the test is to be performed again. (2) Operation test is to be carried out for both ballast and de-ballast mode. (A) For land-based testing, (a) Operational margin is $\pm 7\%$ of applicable treatment capacity. (b) TRC and Minimum treatment capacity are to be carried out for operation test. (c) Alarm and shutdown due to flow rate can be overridden for minimum treatment capacity. (B) For shipboard testing, (a) Operational margin is to be adjusted by agreement between the manufacturer and the Society considering the condition of the vessel. (b) TRC is to be carried out for operation test. | | | | | | | | | | | | | | | | | | | | | | |
| | Minimum Treatment Capacity | 30 minutes | | | | | | | | | | | | | | | | | | | | | | | |
| Emergency Operational test (bypass mode) | | – | – | | | | | | | | | | | | | | | | | | | | | | |
| Emergency stop test | | – | – | | | | | | | | | | | | | | | | | | | | | | |

Amendment

Reason

Table 3.35.3 Operational and functional test items (2021)

| Test item | | Test requirements and test time | Remark |
|---|----------------------------|---------------------------------|--|
| Functional test (Requirement regarding alarm and system shutdown) (2023) | | Refer to Table 3.35.1 | |
| Operation test | TRC (100%) | 60 minutes | (1) Alarm and shutdown are not to be occurred. When alarm and shut down are activated, the test is to be performed again. (2) Operation test is to be carried out for both ballast and de-ballast mode. (A) For land-based testing, (a) Operational margin is $\pm 7\%$ of applicable treatment capacity. (b) TRC and Minimum treatment capacity are to be carried out for operation test. (c) Alarm and shutdown due to flow rate can be overridden for minimum treatment capacity. (B) For shipboard testing, (a) Operational margin is to be adjusted by agreement between the manufacturer and the Society considering the condition of the vessel. (b) TRC is to be carried out for operation test. |
| | Minimum Treatment Capacity | 30 minutes | |
| Emergency Operational test (bypass mode) | | – | – |
| Emergency stop test | | – | – |

Harmonized terms related to Pt 9, Ch 10, Sec 3, 306. 4 of the Rules