



CIRCULAR

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To : All Surveyors and whom it may concern

No : 2022-3-E
Date : 2022. 3. 21

Subject	9.157 Notice for Amendments to KR Technical Classification Rules (Revised CMS requirements)
Application	On or after 22nd Mar. 2022 (The application for survey is submitted)

1. Please be informed that the amendments have been made to the following KR Technical Rules and Guidance among the Circular (No. 2021-17-E, 9.153) issued on November 9, 2021. And you are kindly requested to apply the amendments on the relevant works according to effective date.

= Below =

- 1) Revision of requirements for open-up survey of CMS according to the approval of the Ministry of Oceans and Fisheries, Republic of Korea
2. Furthermore, please be informed that these amendments will be included in 2022 edition on KR Classification Technical Rules which will be published in the first half of 2022.

Attachments: Amendments of the Rules for the Classification of Steel Ships, Pt 1. -- 1 copy. (The End)

Amended Rules for the Classification of Steel Ships

Pt. 1 Classification and Surveys



Mar. 2022

- Main Amendments -

(1) Effective date : 22nd Mar. 2022 (Date of which the application for survey is submitted)

- Revision of the requirements for open-up survey of CMS according to the approval of the Ministry of Oceans and Fisheries, Republic of Korea

(1) Effective date : 22 Mar. 2022

(Date of which application for survey is submitted)

Present	Amendment
<p data-bbox="129 225 1077 264">CHAPTER 2 PERIODICAL AND OTHER SURVEYS</p> <p data-bbox="271 304 936 344">Section 9 Continuous Survey of Machinery</p> <p data-bbox="557 347 676 371"><omitted></p> <p data-bbox="87 384 512 413">902. Survey items [See Guidance]</p> <ol data-bbox="118 432 1117 600" style="list-style-type: none"> <li data-bbox="118 432 1117 493">1. The procedure of CMS is to be complied with Annex 1-7 of the Guidance. <i>(2021)</i> <li data-bbox="118 512 1117 600">2. Where any machinery installations were overhauled and inspected by the Chief Engineer the overhauled inspections may substitute for the CMS in accordance with Annex 1-7 of the Guidance. <p data-bbox="557 667 676 691"><omitted></p>	<p data-bbox="1536 316 1762 339"><same as present></p> <p data-bbox="1120 352 1543 381">902. Survey items [See Guidance]</p> <ol data-bbox="1151 400 2159 695" style="list-style-type: none"> <li data-bbox="1151 400 2159 461">1. The procedure of CMS is to be complied with Annex 1-7 of the Guidance. <i>(2021)</i> <li data-bbox="1151 480 2159 695">2. Where any machinery installations were overhauled and inspected by the Chief Engineer the overhauled inspections may substitute for the CMS in accordance with Annex 1-7 of the Guidance. <u>However, for ships subject to Korean Ship Safety Act, each part of the main internal combustion engine and internal combustion engine to drive main generator among machinery permissible for the Chief Engineer's inspection, open-up survey by the Surveyor for at least one of two CMS cycles is to be carried. (2022)</u> <p data-bbox="1536 762 1762 786"><same as present></p>

Amended Guidance Relating to the Rules for the Classification of Steel Ships

Pt. 1 Classification and Surveys



Mar. 2022

- Main Amendments -

(1) Effective date : 22nd Mar. 2022 (Date of which the application for survey is submitted)

- Revision of the requirements for open-up survey of CMS according to the approval of the Ministry of Oceans and Fisheries, Republic of Korea

(1) Effective date : 22 Mar. 2022

(Date of which application for survey is submitted)

Present

Annex 1-7 Continuous Machinery Survey Procedure (CMS)

Table 2 Machinery Permissible for the Chief Engineers Inspection, etc.

	Items	Remarks
Machinery permissible for the Chief Engineers inspection	<ol style="list-style-type: none"> 1. Main diesel engine 2. Auxiliary diesel engine(Refer to remarks) 3. Forced draft fans & burning pumps for main boiler 4. Auxiliary machinery <ol style="list-style-type: none"> (1) Air compressor (2) Auxiliary blower (3) Pump (4) Heat exchanger (5) Portable fuel oil tank (6) Fresh water generator (7) Deck machinery (8) Hydraulic pumps of steering gears 	<p>The Chief Engineer's inspection for auxiliary diesel engines</p> <ul style="list-style-type: none"> ● The engine is completely opened up and a careful examination is made on all cylinder units, cylinder liners, cylinder covers, cylinder cover valves, pistons, piston rings, connecting rods and top and lower bearings, piston pins, camshaft driving gears, turbo-chargers, air-intercoolers, crankcase and crankcase doors, engine foundation bolts, and crank case safety valves. ● The top halves of all main bearings are removed and two bottom halves are taken out for examination. ● An examination is made on all crankpins and journals to detect cracks, especially at fillet and areas in the vicinity of oil holes and crank shaft oil grooves. ● Crank web deflections are measured and recorded. ● Wear downs of the cylinder liners are measured and recorded. ● The L.O. cooler attached to the engine, L.O. pumps, cooling water pumps, etc. of direct driven-type are opened up and examined. ● Verify through performance tests that safety devices are in good operating condition. ● The service hours of crank pin bolts are checked and recorded.

Amendments

Annex 1-7 Continuous Machinery Survey Procedure (CMS)

Table 2 Machinery Permissible for the Chief Engineers Inspection, etc. [\(2022\)](#)

	Items	Remarks
Machinery permissible for the Chief Engineers inspection	<ol style="list-style-type: none"> 1. Main diesel engine 2. Auxiliary diesel engine(Refer to remarks) 3. Forced draft fans & burning pumps for main boiler 4. Auxiliary machinery <ol style="list-style-type: none"> (1) Air compressor (2) Auxiliary blower (3) Pump (4) Heat exchanger (5) Portable fuel oil tank (6) Fresh water generator (7) Deck machinery (8) Hydraulic pumps of steering gears <p>※ However, for ships subject to Korean Ship Safety Act, each part of the main internal combustion engine and internal combustion engine to drive main generator among machinery permissible for the Chief Engineer's inspection, open-up survey by the Surveyor for at least one of two CMS cycles is to be carried.</p>	<p>The Chief Engineer's inspection for auxiliary diesel engines</p> <ul style="list-style-type: none"> ● The engine is completely opened up and a careful examination is made on all cylinder units, cylinder liners, cylinder covers, cylinder cover valves, pistons, piston rings, connecting rods and top and lower bearings, piston pins, camshaft driving gears, turbo-chargers, air-intercoolers, crankcase and crankcase doors, engine foundation bolts, and crank case safety valves. ● The top halves of all main bearings are removed and two bottom halves are taken out for examination. ● An examination is made on all crankpins and journals to detect cracks, especially at fillet and areas in the vicinity of oil holes and crank shaft oil grooves. ● Crank web deflections are measured and recorded. ● Wear downs of the cylinder liners are measured and recorded. ● The L.O. cooler attached to the engine, L.O. pumps, cooling water pumps, etc. of direct driven-type are opened up and examined. ● Verify through performance tests that safety devices are in good operating condition. ● The service hours of crank pin bolts are checked and recorded.