

Earth Fault Alarm Devices for High Voltage Electrical Installations

Object of Amendment

Rules for the Survey and Construction of Steel Ships Part H

Reason for Amendment

Part H of the Rules for the Survey and Construction of Steel Ships specifies requirements for the distribution, construction and protective devices of high voltage electrical installations. The current requirements specify that “Devices capable of indicating any earth faults in systems by means of visual and audible alarms are to be provided” for high voltage electrical installations. However, this wording could be interpreted as requiring earth fault detection individually for each high voltage power circuit, rather than for the entire system.

IACS UR E11 and IEC 60092-503, which are the basis for this requirement, require earth fault monitoring as well as visible and audible alarms for the entire distribution system, but do not require them for individual circuits.

Accordingly, relevant requirements are amended to ensure consistency with international standards and prevent misinterpretation.

Outline of Amendment

Amends requirements related to earth fault alarm devices for high voltage electrical installations.

Effective Date and Application

Effective date of this amendment is 1 January 2026.

ID:DD25-13

Amended-Original Requirements Comparison Table (Earth Fault Alarm Devices for High Voltage Electrical Installations)

Amended	Original	Remarks
<p style="text-align: center;">RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS</p> <p style="text-align: center;">Part HELECTRICAL INSTALLATIONS</p> <p style="text-align: center;">Chapter 2 ELECTRICAL INSTALLATIONS AND SYSTEM DESIGN</p> <p>2.17 High Voltage Electrical Installations</p> <p>2.17.4 Protective Devices, etc. 10 Devices capable of indicating any earth fault in <u>the distribution</u> system by means of <u>a</u> visual and audible alarm are to be provided.</p>	<p style="text-align: center;">RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS</p> <p style="text-align: center;">Part HELECTRICAL INSTALLATIONS</p> <p style="text-align: center;">Chapter 2 ELECTRICAL INSTALLATIONS AND SYSTEM DESIGN</p> <p>2.17 High Voltage Electrical Installations</p> <p>2.17.4 Protective Devices, etc. 10 Devices capable of indicating any earth faults in <u>systems</u> by means of visual and audible alarms are to be provided.</p>	<p>Clarifying that earth fault monitoring as well as visible and audible alarms are required for the entire system rather than for individual circuits, to ensure consistency with international standards (2.4.2 of IACS UR E11 and 4.9.7 of IEC 60092-503).</p>
EFFECTIVE DATE AND APPLICATION		
<p>1. The effective date of the amendments is 1 January 2026.</p>		