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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

JT/T 815.2-2012

Replacing JT/T 815.2-2012

Shore-to-ship power supply system operating procedure - Part 2: Low voltage

港口船舶岸基供电系统操作技术规程 第2部分：低压上船 清晰版

(English Translation)

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Foreword

JT/T 815 "Technical Specifications for Operation of Shore-based Power Supply System for Port Ships" is divided into two parts.

--- Part 1. High-voltage power supply;

--- Part 2. Low voltage power supply.

This part is the second part of JT/T 815.

This section is in accordance with GB/T Draft the rules given in 1-2009.

This section replaces JT/T 815. 2-2012 "Technical Code for Operation of Shore-based Power Supply System for Port Ships Part 2. Low-Voltage Boarding". versus JT/T 815. Compared with 2-12, in addition to editorial changes, the main technical changes are as follows.

--- Modified the scope of application for specialized terminals such as containers, ro/ro, passenger, dry bulk, general cargo, and official ships Chapter 1 of the Annual Edition).

--- Added technical requirements for compatibility assessment of shore-based power supply

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systems (see 3.5).

--- Increased the work flow framework of the shore-based power supply system (see 3.7 and Appendix B).

--- Increased the operating requirements of inland river wharf and slope wharf (see 5.4, 6.4 and 7.5).

--- Increased operating requirements in the form of shore power piles (see 3.16, 4.11, 5.6.6, 6.8, 7.7).

--- Increased maintenance operation requirements (see Chapter 8).

--- Modified the application form for ship electricity and the data record form for shore-based power supply (see Appendix C and Appendix F, Appendix A and Appendix of the 2012 edition) Record B).

This part is proposed and managed by the National Port Standardization Technical Committee (SAC/TC 530).

This section was drafted. Water Transport Research Institute of Ministry of Transport, Shanghai International Port (Group) Co., Ltd.

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The previous versions of the standards replaced by this section are.

--- JT/T 815. 2-2012.

JT/T 815. 2-2019

Technical Regulations for Operation of Shore-based Power Supply System for Port Ships Part 2. Low-voltage power supply

1 Scope

This part of JT/T 815 specifies the basic requirements for low-voltage power supply operation of shore-based power supply systems for ports and ships, as well as preparation, connection, power supply, Operational technical regulations such as power failure and maintenance.

This section applies to ships with specialized berths such as containers, ro-ro, passenger transport, dry bulk, general cargo, and official ships that use low-voltage power supply.

Shore-based power supply system.

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2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 51305 Engineering technical standards for shore power facilities of wharf ships JT S 155 Technical Specifications for Construction of Quay Shore Power Facilities JT S 155-1 Technical Specifications for Detection of Quay Shore Power Facilities

3 Basic requirements

3. 1. The shore party shall establish a management system and emergency mechanism related to the ship's shore-based power supply system, and shall be managed by a special person.

3.2
The shore party shall be equipped with personnel for ship shore-based power supply system management, operation and maintenance.

3.3
The staff on the shore to operate the ship's shore-based power supply system shall be trained and certified to work.

3.4
The shore side and the ship side shall negotiate to determine that a special person will give unified command to the operation process.

3.5
Before the ship uses the ship's shore-based power supply system for the first time, the shore and the ship should conduct shore-ship electrical Capacitive analysis to determine the feasibility of the connection between the ship's shore-based power supply system and the ship's electrical system. The shore ship electrical compatibility analysis shall include the ship's the power demand, expected short-circuit current, grounding method, power quality, and communication should also meet the requirements of GB/T 51305 and JT S 155.

The main content of shore ship electrical compatibility analysis is shown in Appendix A.

3.6
The shore party and the ship party should sign the ship's shore-based power supply service agreement or form a written confirmation document to clarify the responsibilities, safety responsibilities, and labor of both parties.

Make a demarcation point. The shore side and the ship side shall understand each other

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the configuration and technical parameters of the shore-based power supply system and the ship-borne power receiving system.

3.7
The shore party shall establish work procedures for the preparation, connection, power supply, and power outage of the ship's shore-based power supply system. Workflow framework of shore-based power supply system See Appendix B.

3.8
During the power supply service of the ship's shore-based power supply system, the shore-based power supply equipment shall hang warning signs.

3.9
The shore side shall do a good job of the safety protection of the shore-based power supply system, check and record regularly, and notify the ship side in time if problems are found.

3.10
The shore and ship shall keep the communication smooth and communicate in a timely manner.

3.11
Personal safety protection should be done when operating the ship's shore-based power supply system, safety protective equipment should be worn in accordance with regulations, and there should be supervision during operation.

3.12
When the terminal stops operating due to weather, the ship's shore-based power supply system should not be used. When the water velocity of the river terminal is too high, it is not appropriate Use a ship's shore-based power supply system.

3.13
Connectors should be connected and disconnected with power off.

3.14
The shore-based power supply of port ships shall have a power supply record.

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3.15
The cable management device of the shore-based power supply system of a port ship shall be confirmed to not affect the berthing and loading and unloading operations of the ship.

Turn off the power, secure the connection cables, and protect the connectors.

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