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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB 36900.3-2018

Concrete High Integrity Container for Low-and-Intermediate Level Radioactive Solid Wastes

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Foreword

In order to implement the Environmental Protection Law of the People's Republic of China, the Law of the People's Republic of China on Prevention and Control of Radioactive Pollution,

The whole law, the prevention and control of radioactive pollution, improve environmental quality, protect human health, and develop this standard.

The low-to-medium-level radioactive waste high-integrity container series consists of high-integrity container standards made of three different materials.

- "High-integrity container for low- and medium-level radioactive waste - ductile iron container" (GB 36900.1);

- "High-integrity container for low- and medium-level radioactive waste - concrete container" (GB 36900.2);

- "High-integrity container for low- and medium-level radioactive waste - cross-linked high-density polyethylene containers" (GB 36900.3).

This standard is the third part of the "low and medium level radioactive waste high integrity container - cross-linked high density polyethylene container"

(GB 36900.3), specifies the safety of cross-linked high-density polyethylene high-integrity containers for packaging low- and medium-level radioactive solid waste

Requirements, quality requirements, inspection methods, inspection rules, identification and storage and transportation.

Appendix A of this standard is an informative appendix, and Appendix B~Appendix D is a normative appendix.

This standard is the first release.

This standard is formulated by the Radiation Source Safety Supervision Department of the Ministry of Ecology and Environment, the Nuclear Facilities Safety Supervision Department, and the Science and Technology Standards Department.

This standard is mainly drafted by. China Guangdong Nuclear Power Engineering Co., Ltd., China Guangdong Nuclear Research Institute Co., Ltd., National Power Investment Group Yuanda Environmental Protection Co., Ltd.

Ltd. and National Power Investment Group Co., Ltd.

This standard has been implemented since March 1,.2019.

This standard is explained by the Ministry of Ecology and Environment.

Low and medium level radioactive waste high integrity container - crosslinked high density polyethylene container

1 Scope of application

This standard specifies cross-linked high-density polyethylene high-integrity containers for packaging low- and medium-level radioactive solid wastes (hereinafter referred to as "capacity"

Safety requirements, quality requirements, inspection methods, inspection rules, identification and storage, and transportation.

This standard applies to waste conditioning, storage, transportation and disposal in the safety management activities of low and medium level radioactive solid waste.

It is used for packaging high-level waste or as a packaging container for Type B and Type C packages.

This standard applies to the design, manufacture, procurement, inspection and other activities of containers.

2 Normative references

The contents of this standard refer to the terms in the following documents. For undated references, the valid version applies to this standard.

Safety regulations for near-surface disposal of low- and medium-level radioactive solid wastes GB 9132

GB 11806 Safe Transport Procedure for Radioactive Material

GB 12711 Low and medium level radioactive solid waste packaging safety standards

GB 19434.8 Dangerous goods rigid plastic intermediate bulk containers inspection safety specification performance test

GB/T 711-2017 high quality carbon structural steel hot rolled steel sheet and strip

Plastics -- Determination of density of non-foam plastics -- Part 1 . Dipping method, liquid pycnometer method and titration method

GB/T 1040.1 Determination of tensile properties of plastics - Part 1. General

GB/T 1043.1 Determination of impact properties of simply supported beams - Part 1 . Non-instrumental impact test