



Facility/Technical/Inspection Code for Manufacture of Water Electrolysis Hydrogen Generator

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This code is the detailed standards established by the Gas Technical Standards Committee in accordance with Article 22-2 of "High-Pressure Gas Safety Control Act", Article 45 of "Safety Control and Business of Liquefied Petroleum Gas Act" and Article 17-5 of "Urban Gas Business Act", Article 48 of "Hydrogen Economy Promotion and Hydrogen Safety Management Act". Since conformity to this Code is deemed to conform to the laws and regulations above, this Code must be observed.

This English version of KGS Code is an informal translation from its Korean original version. Only the Korean version of the KGS Code is officially effective since it has been authorized by the Gas Technical Standards Committee (KGS Code Committee). The secretariat of the Committee reserves the right to revise the English version whenever translation errors are found.

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1. General

1.1 Scope

1.1.1 This Code is applicable to the facilities, technical matters, and inspections of water electrolysis hydrogen generators that fall under any one of the following among those falling under Article 2 (3) 2 of the Enforcement Rule of the Hydrogen Economy Promotion and Hydrogen Safety Management Act and their ancillary facilities:

- (1) water electrolysis hydrogen generators using acidic and basic aqueous solutions;
- (2) water electrolysis hydrogen generators using an anion exchange membrane (AEM);
- (3) water electrolysis hydrogen generators using a proton exchange membrane (PEM).

1.2 Validity of the Code

1.2.1 This Code has been approved by the Minister of Trade, Industry and Energy (MOTIE Notice No. 2022-793, November 4, 2022) following a review and resolution (Agenda No. 2022-8, October 21, 2022) by the KGS Code Committee pursuant to Article 33-2 of the High-Pressure Gas Safety Control Act (hereinafter referred to as the "High-Pressure Gas Act") in accordance with Article 48 (1) of the Hydrogen Economy Promotion and Hydrogen Safety Management Act (hereinafter referred to as the "Act") and is in effect as detailed standards under Article 48 (1) of the Act.

1.2.2 Compliance with this Code will be regarded as conformity to the matters set forth in attached Table 1 of the Enforcement Rule in accordance with Article 48 (4) of the Act.

1.3 Recognition of Other Standards

1.3.1 Inspection standards for new technology products

In accordance with subparagraph 4 item A of attached Table 1 of the Enforcement Rule, manufacturing and inspection methods for newly developed water electrolysis hydrogen generators that do not meet the facility, technical, and inspection standards under this Code but are not deemed to undermine the safety control thereof and are approved by the Minister of MOTIE may be applied to the relevant hydrogen equipment.