



Code for Facilities, Technology and Inspection for Manufacturing of Gas Fuel Cells

Deliberation/Resolution by Gas Technical Standards Committee : July 19, 2019

Approval by the Ministry of Trade, Industry & Energy : August 14, 2019

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History of Establishment and Revision of KGS Code	
Code Number	KGS AB934 ²⁰¹⁹
Code Title	Code for Facilities, Technology and Inspection for Manufacturing of Gas Fuel Cells

Date of Establishment/Revision	Description
December 31, 2008	Established (Notification of the Ministry of Knowledge Economy No. 2008-380)
May 15, 2009	Revised (Notification of the Ministry of Knowledge Economy No. 2009-193)
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June 26, 2012	Revised (Notification of the Ministry of Knowledge Economy No. 2012-313)
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November 17, 2014	Revised (Notification of the Ministry of Trade, Industry & Energy No. 2014-589)
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January 8, 2016	Revised (Notification of the Ministry of Trade, Industry & Energy No. 2016-6)
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Code for Facilities, Technology and Inspection for Manufacturing of Gas Fuel Cells

1. General

1.1 Scope

1.1.1 This Code applies to the facilities, technology and inspection for manufacturing of the gas fuel cells of which heat input is not over 232.6 kW (200,000 kcal/h) and which are in conformity to the Enforcement Regulation of the Safety Control and Business Regulation of Liquefied Petroleum Gas Act (hereinafter referred to as "Enforcement Regulation"), Table 3, No. 13 and Table 7, No.4-m.

1.2 Validity of Code

1.2.1 This Code has passed the deliberation and resolution by Gas Technical Standards Committee (Bill No. 2019-6, July 19, 2019) in conformity to the High Pressure Gas Safety Control Act (hereinafter referred to as "High Pressure Gas Act"), Article 33, Clause 2 in accordance with the Safety Control and Business Regulation of Liquefied Petroleum Gas Act (hereinafter referred to as "Act"), Article 45, Clause 1, has been approved by the Minister of Trade, Industry & Energy (Notification No. 2019-489 of the Ministry of Trade, Industry & Energy, August 14, 2019), and is valid and effective as the detailed standards in conformity to the Act, Article 45, Clause 1.

1.2.2 Conformity to this Code is deemed to conform to Table 7 of the Enforcement Regulation in accordance with the Act, Article 45, Clause 4. <Revised on November 4, 2015>

1.3 Reference Codes and Standards

1.3.1 Inspection standard for new technology products

In case the Minister of Knowledge Economy accepts that the new manufacturing and inspection methods of new gas fuel cells developed through technology development do not meet the

standard for facilities, technology and inspection conforming to this Code in accordance with the Enforcement Regulation, Table 7, No. 5-a but do not hinder safety control, such manufacturing and inspection methods of those gas appliances may apply only to them. <Revised on May 15, 2009>

1.3.2 Registration standard for manufacturing of foreign products <Newly established on June 26, 2012>

The "foreign manufacturing facility standards and manufacturing technology standards" specified the Enforcement Regulation, Article 17, proviso of Clause 3 mean the detailed standards specified by the regulations of the Act, Article 45. <Revised on November 4, 2015>

1.4 Definitions

The terms used in this Code are defined as follows:

1.4.1 "Regular quality inspection" means the inspection on product performance by taking samples from products manufactured in mass production to check whether the products which are to undergo production stage inspection are the same products as those which have undergone design stage inspection.

1.4.2 "Routine sample inspection" means the inspection performed to check on the basic product performance by taking samples from the same products manufactured in the same production lot for the products to undergo product identification inspection.

1.4.3 "Occasional quality inspection" means the inspection performed by taking samples without any advance notice from products produced in mass production in order to check whether the products which have undergone production process inspection or comprehensive process inspection are manufactured in the same way as those which have undergone design stage inspection.

1.4.4 "Process identification audit" means the audit conducted to check on the conformity of quality system operation to the manufacturing and self-inspection processes required for manufacturing of the products which have undergone design stage inspection.

1.4.5 "Comprehensive quality control system audit" means the audit conducted to check on the conformity of quality system operation to the whole fuel cell manufacturing process such as design, manufacturing and self-product inspection.

1.4.6 "Type" means the group of products distinguishable in their construction, material, capacity