



## Code for Seismic Design of Gas Facilities and Aboveground Pipelines

Deliberation/Resolution by Gas Technical Standards Committee : July 15, 2022

Approval by the Ministry of Trade, Industry & Energy : August 30, 2022



## Gas Technical Standards Committee

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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.

### History of Establishment and Revision of KGS Code

Code Number	KGS GC203 <sup>2022</sup>
Code Title	Code for Seismic Design of Gas Facilities and Aboveground Pipelines

Date of Establishment/Revision	Description
December 30, 2008	Established (Notification of the Ministry of Knowledge Economy, No. 2008-379)
August 7, 2015	Revised (Notification of the Ministry of Trade, Industry & Energy, No. 2015-436)
January 8, 2016	Revised (Notification of the Ministry of Trade, Industry & Energy, No. 2016-006)
September 29, 2017	Revised (Notification of the Ministry of Trade, Industry & Energy, , No. 2017-475)
January 11, 2018	Revised (Notification of the Ministry of Trade, Industry & Energy, No. 2018-013)
June 15, 2018	Revised (Notification of the Ministry of Trade, Industry & Energy, No. 2018-326)
August 10, 2018	Revised (Notification of the Ministry of Trade, Industry & Energy, No. 2018-419)
October 16, 2018	Revised (Notification of the Ministry of Trade, Industry & Energy, No. 2018-512)
May 17, 2022	Revised (Notification of the Ministry of Trade, Industry & Energy, No. 2022-421)
August 30, 2022	Revised (Notification of the Ministry of Trade, Industry & Energy, No. 2022-641)



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# Code for Seismic Design of Gas Facilities and Aboveground Pipelines

## 1. General

### 1.1 Scope

This Code applies to the seismic design of gas facilities and aboveground pipelines covered by the High-pressure Gas Safety Control Act (hereinafter referred to as the "the High-pressure Gas Act"), the Safety Control and Business of Liquefied Petroleum Gas Act (hereinafter referred to as "the Liquefied Gas Act"), Urban Gas Business Act (hereinafter referred to as "the Urban Gas Act"), and the Hydrogen Economy Promotion and Hydrogen Safety Management Act (hereinafter referred to as "the Hydrogen Act"). <Revised on January 11, 2018, August 30, 2022>

### 1.2 Validity of Code

**1.2.1** This Code has passed the deliberation and resolution by Gas Technical Standards Committee (Bill No. 2022-6, July 15, 2022) in conformity to the High-pressure Gas Act, Article 33-2 in accordance with the High-pressure Gas Act, Article 22-2, Clause 2, the Liquefied Gas Act, Article 45, Clause 2 and the Urban Gas Act, Article 17-4, Clause 2, has been approved by the Minister of Trade, Industry & Energy (Notification No. 2022-641 of the Ministry of Trade, Industry & Energy, August 30, 2022), and is valid and effective as the detailed standards in conformity to the High-pressure Gas Act, Article 22-1, Clause 1, the Liquefied Gas Act, Article 45, Clause 1 And the Urban Gas Act, Article 17-4, Clause 1.

**1.2.2** Conformity to this Code is deemed to conform to the seismic design standard of gas facilities and aboveground pipelines specified in the Enforcement Decrees of the High-pressure Gas Act, the Liquefied Gas Act and the Urban Gas Act in accordance with the High-pressure Gas Act, Article 22-2, Clause 4, the Liquefied Gas Act, 45, Clause 4 and the Urban Gas Act, 17-4, Clause 4.