KGS Code

KGS FS552 2020


# Code for Facilities, Technology and Inspection for Governors of General Urban Gas Business

Deliberation/Resolution by Gas Technical Standards Committee : December 20, 2019
Approval by the Ministry of Trade, Industry & Energy : March 18, 2020

# Personnel

## Gas Technical Standards Committee

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| Chairman | Kwang-Won Lee, Professor of Hoseo University |
| Vice-Chairman | Seung-Hoon Nam, Principal Researcher of KRISS |
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| Ex Officio Member | Hui-Won Lee, Manager of Energy Safety Department, Ministry of Trade, Industry & Energy |
| | Hae-Myeong Yang, Director of Technology and Safety, Korea Gas Safety Corporation |
| High-Pressure Gas | Seung-Hoon Nam, Principal Researcher of KRISS |
| | Beom-Seok Lee, Principal Professor of Kyung Hee University |
| | Dong-Myeong Ha, Professor of Semyung University |
| | Chang-Gi Kim, Principal Researcher of Korea Institute of Machinery and Materials |
| | Hyuk-Myun Kwon, Director General of Occupational Safety & Health Research Institute |
| | Su-Dong Byun, CEO of Q-Best |
| Liquefied Petroleum Gas | Doo-Seon Park, Managing Director of Daesung Industrial Gas Co., Ltd |
| | Hyeong-Hwan Ann, Professor of Korea National University of Transportation |
| | Byeong-Hak Choei, Professor of Gangneung-Wonju National University |
| | Seong-Min Lee, Director of KOGAS Research Institute |
| | Yong-Gwon Lee, Vice-President of EG CNE Co.,Ltd |
| | Gi-hyeon Jang, Director of Kiturmi |
| | Jeong-Sik Chon, Direto of E1 CO., Ltd. |

| History of Establishment and Revision of KGS Code | |
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| Code Number | KGS FS552 [2020] |
| Code Title | Code for Facilities, Technology and Inspection for Governors of General Urban Gas Business |

| Date of Establishment/Revision | Description |
|---|---|
| December 31, 2008 | Established (Notification of the Ministry of Knowledge Economy No. 2008-381) |
| May 15, 2009 | Revised (Notification of the Ministry of Knowledge Economy No. 2009-193) |
| September 25, 2009 | Revised (Notification of the Ministry of Knowledge Economy No. 2009-357) |
| December 2, 2009 | Revised (Notification of the Ministry of Knowledge Economy No. 2009-454) |
| November 3, 2010 | Revised (Notification of the Ministry of Knowledge Economy No. 2010-421) |
| January 3, 2011 | Revised (Notification of the Ministry of Knowledge Economy No. 2010-489) |
| January 5, 2012 | Revised (Notification of the Ministry of Knowledge Economy No. 2011-635) |
| December 28, 2012 | Revised (Notification of the Ministry of Knowledge Economy No. 2012-549) |
| June 27, 2013 | Revised (Notification of the Ministry of Trade, Industry & Energy No. 2013-136) |
| January 7, 2015 | Revised (Notification of the Ministry of Trade, Industry & Energy No. 2015-001) |
| July 3, 2015 | Revised (Notification of the Ministry of Trade, Industry & Energy No. 2015-372) |
| August 7, 2015 | Revised (Notification of the Ministry of Trade, Industry & Energy No. 2015-436) |
| October 2, 2015 | Revised (Notification of the Ministry of Trade, Industry & Energy No. 2015-518) |
| 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) |
| November 12, 2018 | Revised (Notification of the Ministry of Trade, Industry & Energy No. 2018-567) |
| April 5, 2019 | Revised (Notification of the Ministry of Trade, Industry & Energy No. 2019-218) |
| June 14, 2019 | Revised (Notification of the Ministry of Trade, Industry & Energy No. 2019-375) |
| July 16, 2019 | Revised (Notification of the Ministry of Trade, Industry & Energy No. 2019-434) |
| March 18, 2020 | Revised (Notification of the Ministry of Trade, Industry & Energy No. 2020-169) |

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# Code for Facilities, Technology and Inspection for Governors of Urban Gas Business

## 1. General

### 1.1 Scope

This code applies to the installation, operation and inspection of governors among gas supply facilities of general city gas business operators in conformity to the Urban Gas Business Act (hereinafter to be referred to as "the Act"), Article 2, No.4 and No. 5.

### 1.2 Validity of Code

**1.2.1** This Code has passed the deliberation and resolution by the Gas Technical Standards Committee (Bill No. 2019-12, December 20, 2019) in conformity to the High-Pressure Gas Safety Control the Act, Article 33-2, in accordance with the Act, Article 17, Clause 4-2 has been approved by the Minister of Trade, Industry & Energy (Notification No. 2020-169 of the Ministry of Trade, Industry & Energy, March 18, 2020) and is valid and effective as detailed standards in conformity to the Act, Article 17-4, No. 2.

**1.2.2** Conformity to this Code is deemed to conform to Table 6-2, No. 2 of the Enforcement Regulation in accordance with the Act (hereinafter referred to as "Enforcement Regulation"), Article 17-5, Clause 4. <Revised on August 7, 2015>

### 1.3 Definitions

The meanings of the terms used in this Code are as follows:

**1.3.1** A "governor" means the equipment which has the pressure reduction function to reduce the pressure of city gas to be suitable for consumers, the pressure regulating function to maintain the

pressure at the outlet side within the allowable range, and the shutoff function to completely shut off the valve and prevent pressure rise when there is no gas flow and consists of a regulator and associated facilities. <Revised on November 13, 2010>

**1.3.2** "Associated facilities of a governor" means the piping, gas shutoff devices (valves), gas filters, slam shut valves and safety valves, pressure recorders, various alarms and piping and cables connected to them installed from the first valve (flange or insulation joint if there is no valve) to the outlet side valve (flange or insulation joint if there is no valve).

**1.3.3** A "city gate gas governor' means a governor owned by a general city gas business operator and installed to first decrease the pressure of city gas supplied from the gas wholesale business operator. <Revised on November 3, 2010>

**1.3.4** "District governors" mean governors owned by a general city gas operator and installed to decrease the pressure of city gas supplied from the city gate governor or the gas wholesale business operator to supply the city gas to multiple gas consumers. <Revised on November 3, 2010>

**1.3.5** "Reinforced concrete structure governor rooms" mean governor rooms of which walls and foundations are constructed with reinforced concrete. <Revised on November 3, 2010>

**1.3.6** "Cabinet type governor rooms" mean governor rooms which are used for governor units of which governors, piping, safety devices, etc. are integrated together and which are installed in single cabinets made of corrosion-resistant materials and installed on reinforced concrete foundations. <Revised on November 3, 2010>

**1.3.7** An "abnormal pressure alarm system" is a system which sounds alarm sounds (70 db or over) to alert the control room when the pressure at the outlet of the governor is raised over the set pressure or is abnormally lowered. <Revised on November 3, 2010>

**1.3.8** An "emergency shutoff device" means a device which automatically shuts off the gas flowing to the inlet side when the pressure at the outlet is higher than the set pressure due to malfunctioning of the governor. <Revised on November 3, 2010>

**1.3.9** A "safety valve" means a valve which automatically discharges gas to the atmosphere when the pressure of the governor is abnormally raised. <Revised on November 3, 2010>

**1.3.10** "Normal pressure" means the maximum pressure used in a normal service condition and is