Kyushu University Rules for High Pressure Gas Hazard Prevention

Kyushu University Rule No.103 of 2004 Established: April 1, 2004 Last amended: March 31, 2020 (Kyushu University Rule No.120 of 2019)

Chapter 1 General Provisions

(Purpose)

Article 1 These Rules shall provide for the necessary matters in connection with the prevention of hazards associated with the production, storage and consumption of high pressure gas at Kyushu University (hereinafter referred to as the "University"), pursuant to the High Pressure Gas Safety Act (Act No. 204 of 1951, hereinafter referred to as the "Act").

(Definition)

Article 2 In these Rules, the meanings of the terms set forth in the following items are as prescribed respectively in those items:

(1) high pressure gas; the high pressure gas provided in Article 2 of the Act other than that provided in Article 3, paragraph 1 of the Act

(2) specific high pressure gas; the high pressure gas provided in Article 24-2, paragraph 1 of the Act

(3) high pressure gas facilities; the facility where high pressure gas is produced using equipment provided in Article 5, paragraphs 1 and 2 of the Act (hereinafter referred to as the "production facilities"), the facility for consuming specified high pressure gas which consists of equipment for consuming or exempting specified high pressure gas, exhaust ducts, and storage pertaining to consumption (hereinafter referred to as the "specified high pressure gas consumption facilities") and the storage place provided in Articles 16 and 17-2 of the Act (hereinafter referred to as the "storage place")

(4) storage facilities; storage tank (including Cold Evaporator tank, hereinafter referred to as the " CE tank ") provided in Article 2, Paragraph 1, Item 7 of the Regulation on Safety of General High Pressure Gas (Order of the Ministry of International Trade and Industry No. 53 of 1966; hereinafter referred to as the "General Regulations")

(5) contractor; a company which carries out the manufacture, sele, construction, transportation of high pressure gas, or other activiries with similar nature.

(6) safety workers, etc.; a person provided in Article 3, Paragraph 1, Items 3 through 8

(7) management director; the director of each faculty (meaning the faculty provided in Article 25, Paragraph 1 of the Regulations of Kyushu University (Kyushu University Regulation No. 1 of 2004; hereinafter referred to as the "Regulations")) to which each high pressure gas facility belongs

(8) safety training program; the program provides for the necessary matters in connection with the education on high pressure gas safety pursuant to the Act and these Rules

Chapter 2 Safety Management System

(Safety Management Organization)

Article 3 Each workplace to which high pressure gas facilities belongs (hereinafter referred to as "workplace") or category or each of high pressure gas facilities, according to their functions, etc. have in place the following persons (collectively referred to as "safety controller, etc."; the same applies hereinafter):

(i) a high pressure gas production safety controller (hereinafter referred to as "safety controller") and a deputy thereof (hereinafter referred to as "deputy of safety controller") to be established for each workplace in accordance with or pursuant to the provisions of Article 27-2, paragraph 1 and Article 33, paragraph 1 of the Act;

(ii) a high pressure gas production safety technical manager (hereinafter referred to as "safety technical manager") to be established for each workplace in accordance with the provisions of Article 27-2, paragraph 3 of the Act;

(iii) high pressure gas production safety workers (hereinafter referred to as "safety workers") and deputies thereof (hereinafter referred to as "deputies of safety workers") to be established to each category of production facilities pursuant to Article 27-2, paragraph 4 and Article 33, paragraph 1 of the Act;

(iv) a refrigeration safety manager and a deputy thereof (hereinafter referred to as "deputy of refrigeration safety manager") to be established for each workplace pursuant to the provisions of Article 27-4, paragraph 1 and Article 33, paragraph 1 of the Act;

(v) a specific high pressure gas operation chief (hereinafter referred to as "operation chief") to be established for each workplace pursuant to Article 28, paragraph 2 of the Act;

(vi) a storage management chief (hereinafter referred to as "storage chief") and a deputy thereof (hereinafter referred to as "deputy of storage chief") to be established for each storage place (excluding those composed only of CE tanks or pieces of gas fire extinguishing equipment);

(vii) a high pressure gas safety supervisor (hereinafter referred to as "safety supervisor") to be established for each of production facilities (excluding those consisting only of CE tanks); and

(viii) a receiving safety manager (hereinafter referred to as "safety manager") to be established for each of storage facilities.

(2) The security management organization of each workplace shall be provided in the appended table.

(3) When a workplace covers multiple faculties, that workplace has in place a High Pressure Gas Production Facility Safety Management Council, etc.

(4) The necessary matters concerning operations of the High Pressure Gas Production Facility Safety Management Council, etc. are provided for separately.

(5) A person entering each workplace must comply with the Act, orders based on the Act, or instructions given by the safety controller, etc. under these Rules.

(Environmental Safety and Health Promotion Office)

Article 4 Environmental Safety and Health Promotion Office provided in Article 16 of the Regulations may make recommendations to the President with regard to improvement, etc. of safety management of a high-pressure gas at the University.

(2) President may request Environmental Safety and Health Promotion Office to review and report, etc. on the improvement, etc. of safety management of a high-pressure gas at the University, as necessary.

(Appointment of the Safety Controller, etc.)

Article 5 The safety controller of each workplace shall be as follows:

(i) Ito Campus Workplace: Dean of Faculty of Engineering;

(ii) Kyushu University Hospital (hereinafter referred to as "Hospital") Workplace (Fukuoka area): Director of Kyushu University Hospital;

(iii) Chikushi Campus Workplace: Dean of faculty of Engineering Sciences;

(iv) Hospital (Beppu area) Workplace: Director of Kyushu University Hospital; and

(v) Workplace of Amakusa Marine Biological Laboratory, School of Science: Director of Amakusa Marine Biological Laboratory, School of Science.

(2) The deputy of safety controller of each workplace shall be as follows:

(i) Ito Campus Workplace: Dean of Faculty of Science;

(ii) Hospital (Fukuoka area) Workplace: Vice Director of Hospital;

(iii) Chikushi Campus Workplace: Director of Institute for Materials Chemistry and Engineering;

(iv) Hospital (Beppu area) Workplace: Vice Director of Hospital;

(3) The safety technical manager of each workplace shall consist of the Director of safety management division for high pressure gas, etc. which is established in Environmental Safety and Health Promotion office. (4) The safety workers, etc. shall be appointed by the President from among persons specified in the following items based on the recommendation of the management director, etc. pursuant to the provision of Article 27-2, Paragraph 4, Article 27-4, Paragraph 1, Article 28, Paragraph 2, and Article 33, Paragraph 1 of the Act and the items of this paragraph.

(i) The safety workers and the deputies of safety workers; persons from among the holders of a high pressure gas production safety manager certificate provided in Article 66, paragraphs 2 to 4 of General Regulations and who has experience in producing the high pressure gas.

(ii) The refrigeration safety manager and the deputy of refrigeration safety manager; persons from among the holders of a high pressure gas production safety manager certificate provided in Article 36, Paragraph 1 of the Regulation on Safety of Refrigeration (Order of the Ministry of International Trade and Industry No. 51 of 1966) and who has experience in producing the high pressure gas.

(iii) The operation chief; a person from among who has experience in producing or consuming specific high pressure gas provided in Article 73 of General Regulations.

(iv) The storage chief; a person who has experience in storaging high pressure gas.

(v) The high pressure gas safety supervisor; A person who falls under any of the sub-items (a) through (c) of Article 64, Paragraph 2, item 1 of General Regulations.

(vi) The safety manager; A person who has at least one year of experience in manufacturing or consuming the accepted high pressure gas, or who have finished the training courses relevant to handling of high pressure gas conducted under The High Pressure Gas Safety Institute of Japan.

(5) If the safety workers, etc. are unable to execute its duties due to illness or an accident, the President must appoint a successor based on the recommendation of the management director, etc.

Chapter 3 Duties of Safety Controller, etc.

(Duties of Safety Controller, etc.)

Article 6 The safety controller, the safety technical manager, the safety workers, the refrigeration safety manager, and the operation chief shall perform the duties provided in Article 32, Paragraphs 1, 2, 3, 6, and 8 of the Act, respectively.

(2) Beyond what is provided in the preceding paragraph, when high pressure gas facilities of another organization is established at a workplace, the safety controller shall manage safety in cooperation with that organization as necessary.

(3) Beyond what is provided in paragraph 1, when a contractor who performs repair, maintenance, etc. of high pressure gas facilities prepares work standards and performs safety management, the safety workers shall provide for necessary guidance and advice to that contractor.

(4) The storage chief shall supervise safety concerning storage at the storage place pursuant to the provisions of Article 18, Paragraphs 1 and 2 of the Act.

(5) The safety supervisor shall perform their duties in accordance with the provisions of each item of Article 76 of General Regulations.

(6) The safety manager shall supervise safety concerning storage at the storage place pursuant to the provisions of Article 18, Paragraphs 1 and 2 of the Act., and shall perform the duties of the receiver provided in the proviso of Article 8, Paragraph 2, Item 1 (a) of General Regulations.

(7) The deputy of safety controller, the deputies of safety workers, the deputy of refrigeration safety manager, and the deputy of storage chief shall perform those duties on behalf of the safety controller, the safety workers, the refrigeration safety manager, and the storage chief, respectively, for the period during the period when they are unable to perform their duties because of travel, illness or an accident.

Chapter 4 Safety Management relevant to Equipment Operation, Operation, etc.

(Management of equipment operations, etc.)

Article 7 The safety workers, the refrigeration safety manager, the operation chief, and the safety supervisor shall manage the operation of high pressure gas facilities in accordance with the operation standards provided by the safety workers, etc., and supervise equipment operation and operation of the high pressure gas facilities by staff and students.

(2) A high pressure gas must be produced properly in accordance with the technical standards provided in Article 8, item 2 of the Act.

(3) A specified high pressure gas shall be consumed properly in accordance with the technical standards provided in Article 55, paragraph 2 of General Regulations.

(Record of equipment operation, operation, etc.)

Article 8 In accordance with the standards for patrolling and inspections provided by the safety workers, etc., the safety workers, etc. shall inspect high pressure gas facilities at the start and end of use to check for any abnormality, and shall also inspect the operation of high pressure gas facilities to confirm safety frequently depending on the type of high pressure gas produced at least once a day and the conditions of high pressure gas facilities and the results of the patrolling and inspection of high pressure gas facilities.

(2) Records of equipment operating conditions of high pressure gas facilities and the results of the patrolling and inspection of high pressure gas facilities under the preceding paragraph must be kept for five years.

Chapter 5 Safety Management for High Pressure Gas Facilities

(Maintenance of high pressure gas facilities)

Article 9 High pressure gas facilities must be maintained properly in accordance with the technical standards provided in Articles 6 through 8-2, Article 18, Article 21, Article 22, Article 23, Article 25, Article 26 and Article 55 of General Regulations.

(Restricted access, etc.)

Article 10 To prevent hazards, off-limits zones shall be established around high pressure gas facilities as necessary.

(2) No person other than those who have obtained permission from the safety controller, etc. must enter high pressure gas facilities and the off-limits area set forth in the preceding paragraph.

(3) No person must use fire in high pressure gas facilities and the off-limits area set forth in the preceding paragraph 1. However, this does not apply in the case of construction work, etc., and where necessary measures for the prevention of danger are taken with the permission of the safety workers, etc.

(Sign)

Article 11 In the off-limits area, warning signs which stating the following items must be placed in easily visible places.

(i) Type of high pressure gas

(ii) Fire restrictions

(iii) Prohibition of entry

(iv) Measures to be taken when natural disasters occur

(v) Name of equipment or high pressure gas facilities

(vi) Name of the safety workers, etc.

(2) At the entrance of specified high pressure gas consumption facilities, warning signs which stating the following items must be placed in easily visible places.

- (i) The workplace is specified high pressure gas consumption facilities.
- (ii) Location of specified high pressure gas consumption facilities.

(Observation of Safety Inspection)

Article 12 The safety workers, etc. must be present during a safety inspection provided in Article 35 of the Act.

(Periodical Self-Inspection)

Article 13 Periodic self-inspections provided in Article 35-2 of the Act shall be conducted or supervised by the safety workers, etc.

(2) If, as a result of periodic self-inspections set forth in the preceding paragraph, any matter is found that it does not conform to the technical standards provided in Article 8, item 1 and Article 12, paragraph 1 of the Act, the safety workers, etc. must take the necessary measures.

(3) the safety workers, etc. must prepare inspection records of periodic self-inspections set forth in Paragraph (1) above and keep them for five years.

(Repair)

Article 14 When repairing high pressure gas facilities, the safety workers, etc. shall consult with relevant persons (including contractors of the construction work) about the details and schedule of the construction work thereof and safety measures, etc. to be taken. In addition, they must take necessary measures to ensure safety and supervise the repair thereof.

Chapter 6 Measures for Abnormal Conditions

(Measures for malfunctions or failures)

Article 15 A person who discovers a malfunction or failure of high pressure gas facilities must immediately report it to the safety workers, etc.

(2) When a malfunction or failure is discovered in high pressure gas facilities, the safety workers, etc. must immediately investigate the cause and take necessary measures, and if repairs are necessary, report to the safety technical manager.

(3) If high pressure gas facilities set forth in the preceding paragraph is specified high pressure gas consumption facilities, the operation chief must immediately report to the safety technical manager.

(4) A person who discovers that specified high pressure gas consumption facilities fall into a dangerous state must immediately report the operation chief.

(5) The operation chief who receives the report set forth in the preceding paragraph must immediately take emergency measures to prevent occurrence of disaster, and report to the management director and the safety technical manager, and notify the prefectural governor or mayor or police officers or fire fighters of the occurrence of the situation set forth in the preceding paragraph.

(Measures to be taken in case of leakage and blowout)

Article 16 In the case of leakage or blowout of high pressure gas, the safety workers, etc. must take emergency measures and immediately investigate the cause and take necessary countermeasures.

(Measures to be taken in the event of power failure)

Article 17 In the case of power failure at high pressure gas facilities, the safety workers, etc. must turn off all power switches and inspect each part of the high pressure gas facilities to prevent disaster.

(Measures to be taken in case of fire)

Article 18 In the case of fire at or near high pressure gas facilities, the safety workers, etc. must take emergency measures such as turning off the power switch, etc. and must make an urgent report to a fire station, etc.

(Record of abnormal conditions)

Article 19 The safety workers, etc. shall record the circumstances, timing, measures, countermeasures, etc., of any abnormality, and shall keep records thereof and contribute to the improvement of security technology.

Chapter 7 Safety Training

(Planning and implementation of safety training)

Article 20 The safety controller shall promote safety awareness and improve safety techniques, etc. for persons engaged in operation of high pressure gas facilities under the safety training program.

(2) In order to smoothly implement of prevention and emergency measures on earthquake disaster when an earthquake warning is declared, the safety controller shall provide education necessary for earthquake disaster prevention and conduct earthquake disaster prevention and emergency measures training under the safety training program.

(3) The safety controller shall educate and thoroughly inform relevant persons of these Rules and related laws and regulations (referred to as the "Rules, etc." in the following paragraph), focusing especially on necessary provisions, and record and utilize the results of such education and training.

(4) The safety controller shall repeat the education and training if there are any violations of the Rules, etc.

Chapter 8 Measures for Earthquake Disaster Prevention

(Transmission of earthquake forecasting information and warning declarations)

Article 21 When earthquake forecasting information and warning declarations (hereinafter referred to as " earthquake forecasting information, etc.") provided in Article 2, item 3 and item 13 of the Act on Special Measures Concerning Countermeasures for Large-Scale Earthquakes (Act No. 73 of 1978) have been issued, the safety controller and the management director must inform employees, students, and other relevant persons who concerned with high pressure gas facilities.

(Establishment of an earthquake disaster prevention and emergency measures system and ensuring of disaster prevention workers)

Article 22 When earthquake forecasting information, etc. has been issued or an earthquake has occurred, The safety controller and the management director must establish a prevention and emergency measures system at the high pressure gas facilities and ensure disaster prevention workers.

(Recommendation or instruction for evacuation, etc.)

Article 23 When earthquake forecasting information, etc. has been issued or an earthquake has occurred, The safety controller and the management director must recommend or instruct evacuation for persons present in the high pressure gas facilities and in the vicinity of the facilities.

(Maintenance and inspection of facilities and equipment and materials for disaster prevention) Article 24 When the safety workers, etc. conduct self-inspections, disaster prevention and emergency measures training, the safety workers, etc. shall maintain and inspect fire defense equipment, emergency power supplies, and other equipment and materials for disaster prevention necessary for security purposes.

(Measures to prevent or mitigate the occurrence of disasters)

Article 25 The safety workers, etc. shall take necessary measures to prevent or mitigate the occurrence of

disasters at high pressure gas facilities in the case of an earthquake.

(Cancelling earthquake warning declaration)

Article 26 When the earthquake warning declaration provided in Article 9, Paragraph 3 of the Act on Special Measures Concerning Countermeasures for Large-Scale Earthquakes is cancelled, the safety controller and the management director shall inform it, and the safety workers, etc. shall cancel the emergency measures taken under the preceding Article.

(Publicity to local residents)

Article 27 Publicity relevant to earthquake disaster prevention to local residents shall be conducted in accordance with the manual on disaster countermeasures provided separately by the University.

Chapter 9 Miscellaneous Provisions

(Miscellaneous Provisions)

Article 28 Beyond what is provided in these Rules, the necessary matters in connection with earthquake disaster prevention at high pressure gas facilities shall be provided for the detailed regulations.

(2) Beyond what is provided in these Rules, the necessary matters in connection with the prevention of hazards associated with the production, storage and consumption of high pressure gas may be provided separately by the management director.

(3) Matters which are not provided in these Rules and the detailed regulations referred to in paragraph 1 relevant to measures for earthquake disaster prevention are in accordance with National University Corporation Kyushu University Regulations for Fire Prevention and Disaster Prevention Management (Kyushu University Regulation No. 13 of 2004) and other regulations.

Article 29 In revising these Rules, it is planned and decided upon, taking into account the opinions of safety controller, etc.

Supplementary Provisions These Rules come into effect as of April 1, 2004.

Supplementary Provisions (Kyushu University Rules No. 226 of 2004) These Rules come into effect as of September 16, 2004.

Supplementary Provisions (Kyushu University Rules No. 46 of 2005) These Rules come into effect as of November 14, 2005.

Supplementary Provisions (Kyushu University Rules No. 122 of 2005) These Rules come into effect as of April 1, 2006.

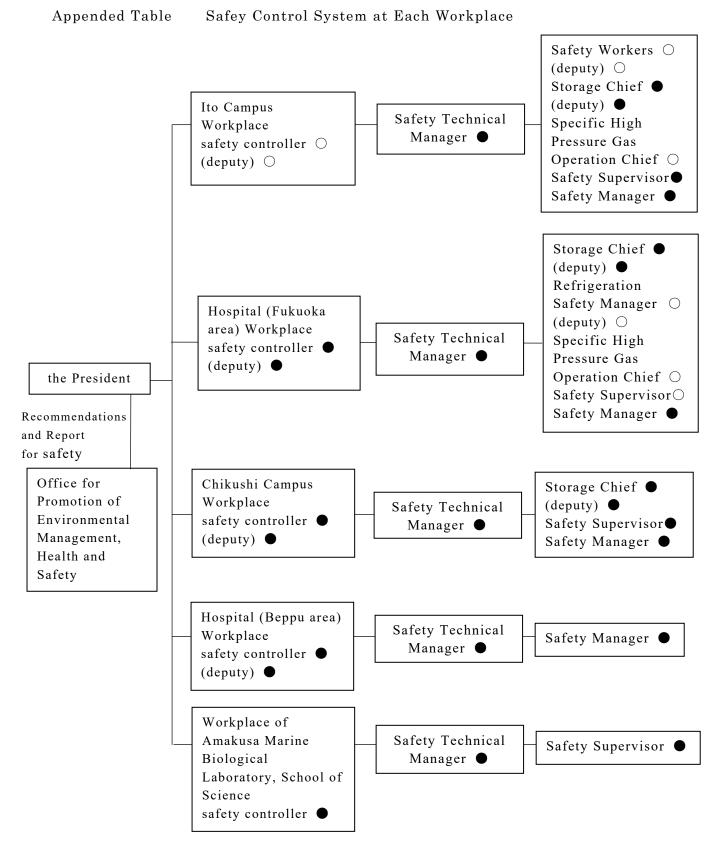
Supplementary Provisions (Kyushu University Rules No. 73 of 2007) These Rules come into effect as of April 1, 2008.

Supplementary Provisions (Kyushu University Rules No. 125 of 2008) These Rules come into effect as of April 1, 2009.

Supplementary Provisions (Kyushu University Rules No. 99 of 2012) These Rules come into effect as of April 1, 2013.

Supplementary Provisions (Kyushu University Rules No. 50 of 2018) These Rules come into effect as of October 1, 2008.

Supplementary Provisions (Kyushu University Rules No. 120 of 2019) These Rules shall come into effect as of April 1, 2020.



(Remarks) Those who are assigned in accordance with laws and regulations are indicated with \bigcirc , and those who are assigned by the University independently are indicated with \bigcirc .