

IGEM Standards

April 2016



*Founded 1863
Royal Charter 1929
Patron: Her Majesty the Queen*



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ABOUT IGEM STANDARDS

Since the 1960s, IGEM has published technical Standards that are now recognized as trusted industry Standards, used to assist in compliance with national legislation and official approved codes of practice and guidance. IGEM Standards relate to aspects of the Pipelines Safety Regulations; Pressure Systems Safety Regulations; Gas Safety (Management) Regulations; Gas Safety (Installation and Use) Regulations; Dangerous Substances and Explosive Atmospheres Regulations; Reporting of Injuries, Diseases and Dangerous Occurrences Regulations; Building Regulations; Health and Safety at Work etc. Act; Management of Health and Safety at Work Regulations; Pressure Equipment Regulations, Electricity at Work Regulations and so on.

The Standards are drafted by expert Panels representing a cross-section of the relevant parts of the gas industry. Regulatory bodies such as HSE, Ofgem and Gas Safe Register contribute to the drafting process. The drafts are issued to the industry and other stakeholders for review and comment prior to publication and, thus, take into account the sometimes broad range of views on the content. The professional status of IGEM ensures its Standards reflect the best possible levels of safety, practice and quality within reasonable cost.

In general, IGEM Standards and guidance documents do not overlap the scope of British Standards (BS) but they do often mirror the scope of British European Standards (BS EN) adding much more detail in many cases. There is no intent to contradict other such standards, and it is IGEM's policy to ensure this does not occur.

IGEM's Standards and guidance documents are all available in hard copy. IGEM does also offer an Online Standards facility, which is provided under a 12 month or three year license. Access is available through the IGEM Online Standards microsite with a valid e-mail address and password. The benefits of the online system are:

- The Standards are always up to date
- Search facility in the Standards is provided
- New publications onto the system are notified on the Home page
- The company does not have to manage a 'library'
- Is accessible through the internet, so not confined to the office
- A Help page is provided.

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The **SCOPE** (pages 4 and 5) allows an "at a glance" view of the subject of the Standards and aspects covered. In general, the advice is set at an intermediate to high level although some books, such as IGEM/GM/6, give detail on "standardised" installations and, hence, contain more prescription.

ABOUT THIS LIST

The list uses the following terms:

Edition X	Where an edition number is stated, the previous edition is superseded i.e. is not current and is obsolete.
Set of Amendments	The edition is issued with separate amendments to bring it up to date. These amendments are issued with every Standard purchased but, where this was purchased prior to issue of amendments, they are available for downloading from the IGEM website (www.igem.org.uk) or by email to technical@igem.org.uk .
Reprint with Amendments	The edition has been reprinted to contain amendments (and enhancements if applicable). Owners of the previous version of the same edition will have to insert amendments (see above) to bring that version up to date. It is not essential to insert enhancements.
Nth	Refers to a re-print with enhancements. Previous impressions remain current.

IGEM STANDARDS

ITEM and EDITION	TITLE (COMMUNICATION NO.)	DATE	STANDARD 2015 PRICE £	MEMBER/IA 2015 PRICE £
TRANSMISSION AND DISTRIBUTION				
IGEM/TD/1 Ed 5	Steel pipelines for high pressure gas transmission (1735) Set of amendments issued 2009	2008	284	190
IGEM/TD/1 Ed 5 Supp 1	Handling, transport and storage of steel pipe, bends and fittings (1736)	2008	72	48
IGEM/TD/2 Ed 2	Assessing the risks from high pressure Natural Gas pipelines (1764)	2013	123	82
IGEM/TD/2 Ed 2 Amendments	Set of Amendments for IGE/TD/2 Ed 2 (1764)	2015	Free	Free
IGEM/TD/2 Ed 2 with amendments July 2015 **	Assessing the risks from high pressure Natural Gas pipelines (1779)	2015	Online Licence	Online Licence
IGEM/TD/3 Ed 5	Steel and PE pipelines for gas distribution (1770)	2014	187	125
IGEM/TD/3 Ed 5 Amendments	Set of Amendments for IGE/TD/3 Ed 5 (1770)	2015	Free	Free
IGEM/TD/3 Ed 5 with Amendments Oct 2015 **	Steel and PE pipelines for gas distribution (1780)	2015	Online Licence	Online Licence
IGE/TD/4 Ed 4	PE and steel gas services and service pipework (1725)	2007	187	125
IGE/TD/12 Ed 2 Reprint with Amds	Pipework stress analysis for gas industry plant (1757)	2012	151	101
IGEM/TD/13 Ed 2	Pressure regulating installations for Natural Gas, Liquefied Petroleum Gas and Liquefied Petroleum Gas/Air (1755)	2011	242	162
IGEM/TD/16	Biomethane injection (1768)	2014	99	66
IGEM/TD/17	Steel and PE pipelines for biogas distribution (1769)	2014	72	48
IGEM/TD/101 Ed 2	Adoption of pipe systems by a GT - management of UIP activities (1740)	2009	91	61
IGEM/TD/102	Competence framework (1761)	2012	91	61
GAS MEASUREMENT				
IGE/GM/4 Ed 2	Flowmetering practices. Inlet pressure exceeding 38 bar and not exceeding 100 bar (1719)	2006	180	121
IGEM/GM/5 Ed 3	Electronic gas meter volume conversion systems (1730)	2008	114	76
IGEM/GM/6 Ed 2	Non-domestic meter installations. Standard designs (1750)	2011	180	121
IGEM/GM/7A	Electrical connections for gas metering equipment (1731)	2008	123	82
IGEM/GM/7B	Hazardous area classification for gas metering equipment (1732)	2008	99	66
IGE/GM/8 Part 1	Non-domestic meter installations. Flow rate exceeding 6 m ³ h ⁻¹ and inlet pressure not exceeding 38 bar Design (1706)	2005	187	125
IGE/GM/8 Part 2	Locations, housings and compounds (1707)	2005	91	61
IGE/GM/8 Part 3	Fabrication, installation, testing and commissioning (1708)	2006	114	76
IGE/GM/8 Part 4	Operation and maintenance (1709)	2006	91	61
IGE/GM/8 Part 5	Notices and labels (1710)	2005	91	61
UTILIZATION				
IGE/UP/1 Ed 2 Reprint with Amds	Strength testing, tightness testing and direct purging of industrial and commercial gas installations (1716)	2005	130	87
IGE/UP/1 Ed 2 Amds	Set of amendments for IGE/UP/1 Ed 2 (1683)	2005	FREE*	FREE*
IGE/UP/1A Ed 2 Reprint with Amds	Strength and tightness testing and direct purging of small low pressure industrial and commercial Natural Gas installations (1717)	2005	104	70
IGE/UP/1A Ed 2 Amds	Set of amendments for IGE/UP/1A Ed 2 (1701)	2005	FREE*	FREE*
IGEM/UP/1B Ed 3	Tightness testing and direct purging of small Liquefied Petroleum Gas/Air, Natural Gas and Liquefied Petroleum Gas installations. (1759). Set of amendments issued 2012	2012	120	80
IGEM/UP/1C	Strength testing, tightness testing and direct purging of Natural Gas and LPG meter installations (1751)	2011	99	66
IGEM/UP/2 Ed 3	Installation pipework on industrial and commercial premises (1771)	2014	236	158
IGEM/UP/3 Ed 3	Gas fuelled spark ignition and dual fuel engines (1781)	2015	114	76
IGEM/UP/4 Ed 3	Commissioning of gas fired plant on industrial and commercial premises (1738)	2009	71	48
IGEM/UP/6 Ed 2	Application of compressors to Natural Gas fuel systems (1741)	2009	114	76
IGE/UP/7 Ed 2	Gas installations in timber framed and light steel framed buildings (1722). Set of amendments issued 2008	2006	114	76
IGE/UP/9 Ed 2	Application of Natural Gas and fuel oil systems to gas turbines and supplementary and auxiliary fired burners (1705)	2004	114	76
IGEM/UP/10 Ed 4	Installation of flued gas appliances in industrial and commercial premises (1774)	2014	170	114
IGEM/UP/10 Ed 4 Amendments	Set of Amendments for IGE/UP/10 Ed 4 (1774)	2016	free	free
IGEM/UP/10 Ed 4 With Amendments March 2016 **	Installation of flued gas appliances in industrial and commercial premises (1786)	2016	Online Licence	Online Licence
IGEM/UP/11 Ed 2	Gas installations for educational establishments (1744)	2010	95	64

IGEM/UP/12 Ed 2	Application of burners and controls to gas fired process plant (1778) Set of amendments issued 2009	2015	162	109
IGEM/UP/16	Design for Natural Gas installations on industrial and commercial premises with respect to hazardous area classification and preparation of risk assessments (1756) Set of amendments issued 2013	2011	114	76
IGEM/UP/17	Shared chimney and flue systems for domestic gas appliances (1754)	2011	120	80
IGEM/UP/18	Gas installations for vehicle repair and body shops (1758)	2012	71	48
IGEM/UP/19	Design and application of interlock devices and associated systems used with gas appliance installations in commercial catering establishments (1777)	2015	99	66
IGEM/UP/19 Amendments	Set of Amendments for IGEM/UP/19 (1777)	2015	Free	Free
IGEM/UP/19 with Amendments Jan 2015	Design and application of interlock devices and associated systems used with gas appliance installations in commercial catering establishments (1777)	2015	Online License	Online License
IGEM/UP/20	CNG Fuelling Stations (1775)	2014	118	79
INDUSTRY GUIDANCE				
IGEM/UP/1101	Guidance on gas installations for the management and staff within educational establishments (1745)	2010	21	14
IGEM/G/101	Onshore natural gas extraction and route to use (1766)	2013	Free	Free
IGEM/IG/1	Standards of training in gas work Download at www.igem.org.uk (1767)	2014	22	15
IGEM/IG/2	Catering equipment engineers guide to relevant sections of IGEM/UP/19 Download at www.igem.org.uk (1772)	2014	21	14
ONSITE GUIDES				
NICEIC	Domestic gas safety onsite guide- part 1 and 2 V4	2015	48	48
NICEIC	Non-Domestic gas safety onsite guide part1 and 2 V5	2015	48	48

Amds = Amendments. Ed = Edition. Imp = Impression. Supp = Supplement.

*Free as download only, unless stated otherwise or for amendments with its associated Standard.

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IGEM STANDARDS

ITEM and EDITION	TITLE (COMMUNICATION NO.)	DATE	STANDARD 2015 PRICE £	MEMBER/IA 2015 PRICE £
GAS LEGISLATION				
IGE/GL/1 Ed 2	Planning of gas distribution systems of MOP not exceeding 16 bar (1718)	2005	99	66
IGE/GL/2 Ed 2	Planning of transmission and storage systems operating at pressures exceeding 16 bar (1727)	2007	71	48
IGEM/GL/4 Ed 2	Gas system assets – risk management (1743)	2010	71	48
IGEM/GL/5 Ed 3	Procedures for managing new works, modifications and repairs (1783)	2015	85	56
IGEM/GL/6 Ed 2	Permitry for the safe flow of gas (1747)	2010	91	61
IGEM/GL/8 Ed 3	Reporting and investigation of gas related-incidents (1776)	2007	114	76
IGE/GL/9	Guidance for large consumers in dealing with Natural Gas supply emergencies. Download at www.igem.org.uk	2006	FREE*	FREE*
GENERAL				
IGEM/G/0	A Standard for IGEM Standards (1782).	2015	FREE	FREE
IGEM/G/1 Ed 2	Defining the end of the Network, a meter installation and installation pipework (1765). Download at www.igem.org.uk	2013	91	61
IGEM/G/4 Edition 2	Definitions for the gas industry (1763). Download at www.igem.org.uk	2012	FREE*	FREE*
IGEM/G/5 Ed 2	Gas installations in multi-occupancy buildings (1762)	2012	158	106
IGEM/G/6	Gas supplies to mobile dwellings (1728)	2009	91	61
IGEM/G/7	Risk assessment techniques	2016	133	90
IGEM/G/8	Handling, transport and storage of PE pipe and fittings (1749)	2010	91	61
IGEM/G/10	Non-return valves (1785)	2016	69	48
SAFETY				

IGEM/SR/4 Ed 3	Variable volume gasholders storing lighter than air gases (1752)	2011	137	92
IGEM/SR/14 Edition 2	Fixed volume storage for lighter than air gases (1742)	2010	114	76
IGEM/SR/15 Ed 5	Integrity of safety-related systems in the gas industry (1746)	2010	123	82
IGEM/SR/15 Ed 5 Amendments	Set of Amendments for IGEM/SR/15 Ed 5 (1746)	2015	Free	Free
IGEM/SR/15 Ed 5 with Amendments Dec 2015	Integrity of safety-related systems in the gas industry (1784)	2015	Online License	Online License
IGEM/SR/16 Ed 2	Odorant systems for gas transmission and distribution (1734)	2008	91	61
IGE/SR/18 Ed 2	Safe working practices to ensure the integrity of gas pipelines and associated installations (1678)	2002	71	48
IGE/SR/22	Purging operations for fuel gases in transmission, distribution and storage (1625)	1999	99	66
IGE/SR/23 2nd Imp	Venting of Natural Gas (1623)	1995	99	66
IGEM/SR/25 Ed 2	Hazardous area classification of Natural Gas installations (1748) Set of amendments issued 2013	2010	199	133
IGEM/SR/28 Ed 2	Trenchless techniques (1753)	2011	137	92
IGEM/SR/29	Dealing with gas escapes (1760)	2012	91	61
CERTIFICATES OF STRENGTH AND TIGHTNESS TESTING AND DIRECT PURGING TO IGE/UP/1 EDITION 2 AND IGE/UP/1A EDITION 2 (shrink wrapped pads of 25 triplicate certificates)				
StT/UP/1A	Certificate of strength testing for IGE/UP/1A	2004	22	15
TT/UP/1A	Certificate of tightness testing for IGE/UP/1A	2004	22	15
DP/UP/1A	Certificate of direct purging for IGE/UP/1A	2004	22	15
StT/UP/1	Certificate of strength testing for IGE/UP/1	2004	22	15
TT/UP/1	Certificate of tightness testing for IGE/UP/1	2004	22	15
DP/UP/1	Certificate of direct purging for IGE/UP/1	2004	22	15

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SCOPE OF IGEM STANDARDS

TD series	Upstream of and including ECV	Planning/design/construction	Testing/commissioning	Operation maintenance	Natural Gas	LPG	Other gases	Other fuels	Operational safety	Operational management	Operational assessments	Risk and safety assessments	Load/stress analysis	Labelling/markling	Records	Corrosion and damage	Alterations	Connections	Legal & Standards	Steel pipe	PE pipe	Other pipe materials	Electrical	Pipe/ meter string
TD/1 Ed 5	Transmission pipelines and associated installations. MOP > 16 bar	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓			✓	✓
TD/1 Ed 5 S1	Steel pipe and components. Storage and transportation								✓	✓						✓			✓	✓				
TD/2 Ed 2	Transmission pipelines. Risk assessment for developments.	✓			✓						✓								✓					
TD/3 Ed 5	Distribution pipelines. MOP ≤ 16 bar	✓	✓	✓	✓	✓			✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TD/4 Ed 4	Services. MOP ≤ 16 bar	✓	✓	✓	✓	✓								✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
TD/12 Ed 2 RWA	Stress analysis												✓						✓	✓				
TD/16	Biomethane injection	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓						✓		✓	✓		
TD/17	Steel and PE pipelines for biogas distribution	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓						✓		✓	✓		
TD/13 Ed 2	Pressure regulating installations	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TD/101 Ed 2	Management of UIP activities									✓									✓					
TD/102	Competence framework									✓														
GM series	Metering																							
GM/4 Ed 2	Flow metering practice. MOP > 38 ≤ 100 bar (I&C)	✓	✓	✓	✓									✓	✓	✓			✓	✓			✓	✓
GM/5 Ed 3	Electronic gas meter volume conversion systems (D, I&C)	✓	✓	✓	✓									✓	✓				✓				✓	
GM/6 Ed 2	Meter installations. (I&C) Flow > 6 m ³ h ⁻¹ MOP ≤ 75 mbar	✓	✓	✓	✓									✓	✓	✓			✓	✓		✓	✓	✓
GM/7A	Electrical connections. (D, I&C) MOP ≤ 100 bar	✓	✓	✓	✓				✓	✓	✓	✓		✓	✓		✓	✓	✓	✓			✓	✓
GM/7B	Hazardous area classification. MOP ≤ 75 bar				✓							✓		✓				✓	✓	✓				
GM/8 Pt 1	Meter installations. (I&C) – Design. MOP ≤ 38 bar	✓			✓										✓	✓		✓	✓	✓		✓	✓	✓
GM/8 Pt 2	Meter installations. (I&C) – Location and housing.	✓		✓	✓										✓	✓			✓	✓			✓	✓
GM/8 Pt 3	Meter installations. (I&C) – Installation and commissioning.	✓	✓		✓				✓	✓				✓	✓	✓		✓	✓	✓			✓	✓
GM/8 Pt 4	Meter installations. (I&C) – Operation and Maintenance.			✓	✓				✓	✓					✓	✓			✓	✓			✓	✓
GM/8 Pt 5	Meter installations. (I&C) – Notices and labels. MOP ≤ 38 bar				✓									✓	✓				✓	✓				
UP series	Downstream of ECV																							
UP/1 Ed 2 RWA	Strength testing, tightness testing and purging MOP ≤ 16 bar (I&C)		✓		✓	✓	✓		✓	✓					✓				✓	✓	✓	✓		
UP/1A Ed 2 RWA	Strength testing, tightness testing and purging MOP ≤ 40 mbar (I&C)		✓		✓				✓	✓					✓				✓	✓	✓	✓		
UP/1B Ed 3	Tightness testing and purging (D).		✓		✓	✓	✓								✓				✓	✓	✓	✓		
UP/1C	Strength testing, tightness testing and purging Meters (I&C) MOP ≤ 7 bar		✓		✓	✓	✓		✓	✓					✓				✓	✓	✓	✓		
UP/2 Ed 3	Installation pipework MOP ≤ 60 bar (I&C)	✓		✓	✓	✓								✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
UP/3 Ed 3	Gas fuelled spark ignition and dual fuel engines. MOP ≤ 400 bar (I&C)	✓	✓	✓	✓			✓						✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
UP/4 Ed 3	Commissioning of gas fired plant (I&C)		✓		✓	✓	✓		✓	✓	✓				✓				✓	✓	✓	✓	✓	✓
UP/6 Ed 2	Compressors. MOP ≤ 400 bar (I&C)	✓	✓	✓	✓									✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
UP/7 Ed 2	Gas installations in framed buildings (D, I&C)	✓			✓	✓								✓	✓	✓			✓	✓	✓	✓	✓	✓
UP/9 Ed 2	Gas turbines (I&C)	✓	✓	✓	✓			✓						✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
UP/10 Ed 4	Gas appliances in industrial and commercial premises (I&C)	✓			✓	✓	✓							✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
UP/11 Ed 2	Gas for educational establishments (C)	✓		✓	✓	✓			✓					✓	✓	✓			✓	✓	✓	✓	✓	✓
UP/12 Ed 2	Gas fired process plant (I)	✓	✓	✓	✓			✓						✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
UP/16	Hazardous area classification (I&C)	✓		✓	✓				✓	✓	✓			✓	✓			✓	✓	✓	✓	✓	✓	✓

UP/17	Shared flues (D)	✓	✓	✓	✓	✓	✓		✓	✓	✓		✓	✓			✓				
UP/18	Vehicle repair shops (I&C)	✓		✓	✓	✓			✓				✓	✓			✓	✓		✓	
UP/19	Interlock devices	✓		✓		✓				✓	✓	✓							✓	✓	
UP/20	CNG fuelling stations	✓	✓		✓				✓		✓		✓				✓				✓
IG Series	Guidance to assist the industry both upstream and downstream of the ECV																				
IGEM/UP/1101	Guidance on gas installations for the management and staff within educational establishments (1745)		✓	✓	✓				✓		✓		✓	✓					✓	✓	✓
IGEM/IG/1	Standards of training in gas work		✓	✓	✓				✓		✓		✓	✓					✓	✓	✓
IGEM/IG/2	Guidance for gas engineers to the application of relevant sections of IGEM/UP/19 in catering establishments		✓	✓					✓		✓		✓	✓					✓	✓	✓
IGEM/G/101	Onshore natural gas extraction and route to use		✓	✓					✓		✓		✓	✓					✓	✓	✓
On-site Guides	Guidance to those working downstream of the ECV																				
NICEIC	Domestic gas safety on-site guide part 1 and 2 V4		✓	✓	✓				✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
NICEIC	Non-Domestic gas safety onsite guide part 1 and 2 V4		✓	✓	✓				✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓

D is Domestic. I is industrial. C is commercial.

SCOPE OF IGEM STANDARDS

GL Series	All upstream except GL/8 (also downstream) and GL/9 (downstream)	Planning	Design	Construction	Pipework	Commissioning	Natural Gas	LPG	Other gases	Operational safety	Operational management	Risk and safety assessments	Operations	Maintenance	Labelling/markings	Records	Standards	Legal	Electrical
GL/1 Ed 2	Planning distribution systems. MOP ≤ 16 bar	✓	✓				✓										✓	✓	
GL/2 Ed 2	Planning transmission MOP > 16 bar	✓	✓				✓										✓	✓	
GL/4 Ed 2	Gas system assets - risk management						✓			✓	✓					✓	✓	✓	
GL/5 Ed 3	Managing new works, modifications and repairs						✓			✓	✓					✓	✓	✓	✓
GL/6 Ed 2	Permitry for the safe flow of gas						✓			✓	✓					✓	✓	✓	
GL/8 Ed 3	Reporting and investigating incidents						✓	✓	✓		✓					✓	✓	✓	
GL/9	Responding to cessation of gas supply	✓					✓			✓	✓	✓					✓	✓	
G series	"Upstream" and "downstream"																		
G/1	Defining the end of the Network, meter installation, etc,						✓										✓	✓	
G/4	Definitions for the gas industry	✓	✓	✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓
G/5	Gas installations in multi-occupancy buildings						✓												
G/6	Gas supplies to mobile dwellings	✓	✓	✓	✓		✓	✓				✓	✓	✓	✓		✓	✓	✓
G/7	Risk assessment techniques	✓	✓	✓	✓		✓	✓				✓	✓	✓	✓		✓	✓	✓
G/8	PE pipe and components. Storage and transportation									✓	✓	✓			✓		✓	✓	
G/10	Non-return valves (1785)				✓	✓	✓	✓	✓	✓		✓					✓		

SR series	Most apply to "upstream" and "downstream" situations																			
SR/4 Ed 3	Variable volume gasholders storing lighter than air gases	✓	✓	✓	✓	✓	✓		✓	✓	✓		✓	✓		✓	✓	✓		
SR/14 Ed 2	Fixed volume storage for lighter than air gases	✓	✓	✓	✓	✓	✓			✓	✓		✓	✓		✓	✓	✓		
SR/15 Ed 5	Integrity of safety-related systems		✓				✓			✓	✓	✓				✓	✓	✓	✓	
SR/16 Ed 2	Odorant systems for gas transmission and distribution	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
SR/18 Ed 2	Safe working for the integrity of pipelines and installations	✓					✓	✓	✓	✓	✓						✓	✓	✓	
SR/22	Purging fuel gases	✓	✓	✓			✓	✓	✓	✓	✓					✓	✓	✓		
SR/23	Venting Natural Gas	✓	✓	✓				✓		✓	✓					✓	✓	✓		
SR/25 Ed 2	Hazardous area classification		✓				✓					✓				✓	✓	✓	✓	
SR/28 Ed 2	Trenchless techniques	✓								✓	✓						✓	✓		
SR/29	Dealing with gas escapes	✓			✓		✓	✓	✓	✓	✓	✓				✓	✓	✓		

PLACING ORDERS (Subject to availability of the Standard)

Orders can be placed using the following methods:

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