

## REFERENCES FOR UK HYDROGEN APPLICATIONS

Care should be taken to ensure that the most recent editions of documents are used as applicable.

### Legislation

- Construction (Design and Management) Regulations 1994
- Gas Act 1995
- Health and Safety at Work Act 1974
- Petroleum Act 1962
- Confined Spaces Regulations 1997
- Control of Substances and Hazardous to Health Regulations 1995 as amended in 1997 and 1998
- Dangerous Substances and Explosive Atmospheres Regulations 2002
- Electricity at Work Regulations 1989
- Gas Industry Unsafe Situations Procedure
- Gas Safety (Rights of Entry) Regulations 1996
- Gas Safety (Installation and Use) Regulations 1998
- Management of Health and Safety at Work Regulations 1999
- Manual Handling Operations Regulations 1992
- Pressure Equipment Regulations 1999
- Pressure Systems Safety Regulations 2000
- Provision and Use of Work Equipment Regulations 1998
- Workplace (Health, Safety and Welfare) Regulations 1992

### Codes of Practice and Guidance Notes

- BCGA Code of Practice CP4. Industrial Gas Cylinder Manifolds & Gas Distribution Pipework
- COP 1 – Design, Installation & Operation of vessels located above ground (Part 2 Small bulk)
- COP 22 – LPG Piping System – Designs and Installation
- HSC ACoP Guidance “Safety in the installation and use of gas systems and appliances” HSE Books Code L56
- HS(G)48 Human Factors in Industrial Safety
- HS(GS)4 Safety in Pressure Testing

### British Standards

- BS 669: Part 2 Specification for corrugated hoses for commercial appliance
- BS 1179 Glossary of terms used in the gas industry. Combustion and utilization including installation at consumers' premises
- BS 1710 Specification for identification of pipelines and services
- BS 3016 Specification for pressure regulators and automatic changeover devices for LPG

- BS 5440: Part 1 Specification for the installation of flues
- BS 5440: Part 2-2000 Specification for the installation of ventilation
- BS 5482: Part 1 Code of practice for domestic butane & propane gas burning installations
- BS 6400 Parts 1,2: Specification for installation of domestic-sized gas meters max rated capacity not exceeding 6m<sup>3</sup>/h
- BS 6891: Installation of low pressure gas pipework of up to 35 mm (R1¼) in domestic premises (2nd family gas)
- BS EN 54: Fire detection and alarm systems
- BS EN 5839: Fire detection and alarm systems for buildings
- BS EN ISO 10380: Pipework/Corrugated metal hoses and hose assemblies
- BS EN 12874: Flame arresters. Performance requirements, test methods and limits for use
- BS EN 50073: Guide for selection, installation, use and maintenance of apparatus for the detection and measurement of combustible gases or oxygen
- BS EN 61508: Function Safety of electrical/electronic and programmable electronic safety related systems

### **IGEM Procedures and Recommendations**

- IGE/UP/1A: Tightness testing and direct purging of small low pressure industrial and commercial gas installations
- IGE/UP/1B: Tightness testing and purging of domestic sized Natural Gas installations
- IGE/UP/2: Gas installations, booster and compressors on industrial and commercial premises
- IGE/UP 3: Gas fuelled spark ignition and dual fuelled engines
- IGE/UP/4: Commissioning of gas fired plant on industrial and commercial premises
- IGE/UP/10 Part 1. Edition 2. : Installation of gas appliances in industrial and commercial premises
- IGE/SR/10: Procedures for dealing with escapes of gas into underground plant
- IGE/SR/22: Purging operations for fuel gases in transmission, distribution and storage
- IGE/SR/23: Venting of Natural Gas
- IGE/SR/24: Risk assessment techniques
- IGE/TD/1: Steel pipelines for high pressure gas transmission
- IGE/TD/ 4: Gas services
- IGE/TD/13: Pressure regulating installations for transmission and distribution systems
- IGE/TD 15: Services & metering installations for gas flow not exceeding 6m<sup>3</sup>/h at supply MOP exceeding 75mbar but not exceeding 2 bar
- IGE/G/1: Definitions for the end of a network, meter installation, and installation pipework

## **LP Gas Association (LPGA) Codes**

- LPGA TM-62 Gas soundness testing of LPG service pipework, installation pipework and appliances

## **International Standards**

- IEC 62282-3-3 Stationary fuel cell power systems – Installation (not yet published)
- ISO TR 15916 – Basic Considerations for the Safety of Hydrogen Systems
- NFPA853 Installation of stationary fuel cell power plants