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# **Guidance on Industry Standard for Potable Water Maker Package**

**GIS 60-111**

**BP GROUP  
ENGINEERING TECHNICAL PRACTICES**

## Foreword

This is the first issue of Engineering Technical Practice (ETP) BP GIS 60-111. This Guidance on Industry Standard (GIS) is based on the following heritage documents from merged BP companies:

### BP

RP 60-5 Potable Water Systems

### BP Gulf of Mexico Deep Water Development Program (GOMDW)

1400-20-ME-SP-3072 Reverse Osmosis Water maker  
1400-0-ME-RP-2021 Water maker Systems Evaluation

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## 1. Scope

This GIS provides guidance on industry standard regarding health, safety and environmental legislation, good design practice, and technical and economic considerations for potable water maker packages. The design information included in this specification is not intended to cover complete details. The guideline outlines regulations, design considerations, and recommends a configuration which can be scaled to adapt to the specific facilities which can differ due to layouts and production capacity

## 2. Normative references

The following normative documents contain requirements that, through reference in this text, constitute requirements of this technical practice. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this technical practice are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies.

### American Bureau of Shipping (ABS)

Publication 63      Guide for Building and Classing Facilities on Offshore Installations

### American Petroleum Institute (API)

RP 14E      Recommended Practice for Design and Installation of Offshore Production Platform Piping Systems

### American Society of Mechanical Engineers (ASME)

ASME B16.5      Pipe Flanges and Flanged Fittings  
ASME Sect. VIII Div. 1 Rules for Construction of Pressure Vessels  
ASME Sect. IX      Welding and Brazing Qualification

### American Welding Society

AWS D1.1      Structural Welding Code

### British Standards

BS 6700      Specification for design, installation, testing and maintenance of services supplying water for domestic use within buildings and their surroundings.  
BS MA 18      Specification for salt water piping systems in ships.

### HSE

HSE HS(G)70      The control of legionellosis including Legionnaires Disease.

### International Code Council (ICC)

IPC, Chapter 6      International Plumbing Code - Water Supply and Distribution

### International Organization for Standardization (ISO)

ISO 3114      Unplasticized Polyvinyl Chloride (PVC) Pipes for Potable Water Supply – Extractability of Lead and Tin – Test Method First Edition  
ISO 4064      Measurement of Water Flow in Closed Conduits - Meters for Cold Potable Water - Part 1: Specifications Second Edition

### National Fire Protection Association (NFPA)

NFPA 70      National Electrical Code

