

TO: API Specification 6DSS - Monogram Licensees
API Specification 6DSS - Monogram Applicants
API Auditors of API Specification 6DSS

FROM: Don Whittaker, Manager – Monogram Program/APIQR

DATE: December 11, 2009

RE: **API Specification 6DSS**
Specification for Subsea Pipeline Valves, Second Edition

Dear Colleague,

It is our pleasure to announce that API 6DSS, *Specification for Subsea Pipeline Valves, Second Edition* has been published. This Document is a co- branded ISO Standard, ISO 14723:2009 (Identical), Petroleum and natural gas industries—Pipeline transportation systems-Subsea pipeline valves.

The publication date for this document is December 2009 with an effective implementation date of **June 1, 2010**.

PLEASE NOTE: The following reflect some changes that all current and potential licensees and auditors should review. All sections after Section 2 have been renumbered and the Annexes have been reordered.

Clause 7.24

Hyperbaric performance

The manufacturer shall demonstrate by calculation or other means that the valve and/or operator are suitable for the required water depth.

If hyperbaric testing is specified by the purchaser to demonstrate suitability, hyperbaric testing shall be performed in accordance with B.5.

Clause 11.1

Valves for gas service shall be subject to a gas shell test in accordance with B.4.2 unless otherwise agreed.

Clause 9.4

Repair

Minor defects may be removed by grinding provided there is a smooth transition between the ground area and the original contour and the minimum wall thickness requirements are not affected.

Repair of defects shall be performed in accordance with a documented procedure specifying requirements for defect removal, welding, heat treatment, NDE and reporting as applicable.

Repairs of fabrication welds (pipe pups to valve) shall be limited to 30 % of the weld length for partial-penetration repairs or 20 % of the weld length for full-penetration repairs, except the minimum length of any weld repair shall be 50 mm.

The heat treatment (if applicable) of weld repairs shall be in accordance with the applicable material standard.

Repair of castings shall be limited to 25% of total surface area inspected.

No casting repair shall exceed 50% of the wall thickness of the affected area, unless by agreement.

Weld repair of forgings and plates to correct manufacturing defects shall be by agreement.

Clause 13

Marking

Body/cover/closure stamping shall be performed using a low-stress die-stamp, rounded "V" or Dot Face type. The valve unique serial number shall be of such a size that it is visually legible; however the stamp size shall not be smaller than 6 mm (0,250).

Each valve shall be provided with an austenitic stainless steel nameplate securely affixed and so located that it is easily accessible. The marking on the nameplate shall be visually legible.

The nameplate and serial number may be omitted for valves smaller than DN 50 (NPS 2), by agreement.

NOTE The purchaser can specify requirements for the marking of valve components.

Clause 15.1

Documentation retained by manufacturer

The documentation listed below shall be retained by the manufacturer for a minimum of ten years following the date of manufacture:

- a) design documentation;
- b) WPS;
- c) PQR;
- d) WPQ;
- e) qualification records of NDE personnel;
- f) records of test equipment calibration;
- g) material test report for body, bonnet/cover(s) and end connector(s)/closure(s) traceable to the unique valve serial number;

- h) serial number;
- i) test results (pressure, torque, thrust, etc.);
- j) external coating procedures and records;
- k) for sour service valves, certificate of compliance to ISO 15156.

NOTE Purchaser or regulatory requirements can specify a longer record retention

Clause 15.2

Documentation shipped with valve

The documentation listed below shall be supplied by the manufacturer and shipped with each valve:

- I) certificate of compliance to this International Standard;
- I) test report (including pressure, test duration, leakage rate, ROV input torque/thrust and test medium) including test charts;
- II) coating/plating certification;
- III) material test reports for pressure-containing and pressure-controlling parts;
- IV) statement of Quality Level applied to NDE records;
- V) certificate stating the maximum allowable torque/thrust value for the drive train (ball, gate and plug valves only) if applicable;
- VI) lifting procedure;
- VII) installation, operation and maintenance instructions/manuals;
- VIII) general arrangement drawings.

Documentation shall be provided by the manufacturer in legible, retrievable and reproducible form and free of damage.

The purchaser can specify supplementary documentation in accordance with Annex C.

Annex A, B, C, D rearranged