

applicable specification. The markings must be made by stamping, engraving, scribing or applying a label embedded in epoxy that will remain legible and durable throughout the life of the cylinder, or by other methods that produce a legible, durable mark.

(1) A cylinder used as a fire extinguisher (see § 180.209(j)) may be marked by using a pressure sensitive label.

(2) For a DOT 3HT cylinder, when stamped, the test date and RIN must be applied by low-stress steel stamps to a depth no greater than that prescribed at the time of manufacture. Stamping on the sidewall is not authorized.

(3) For a composite cylinder, the requalification markings must be applied on a pressure sensitive label, securely affixed and overcoated with

epoxy in a manner prescribed by the cylinder manufacturer, near the original manufacturer's label. Stamping of the composite surface is not authorized.

(d) * * *

(2) A cylinder subject to the requirements of § 171.23(a)(5) of this subchapter must be marked with the date and RIN in accordance with this paragraph (d) and paragraph (f)(11) of this section, or marked in accordance with the requalification authorized by the Associate Administrator in accordance with § 171.23(a)(5)(i) of this subchapter.

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(f) * * *

(10) For designation of grinding with ultrasonic wall thickness examination, the marking is as illustrated in

paragraph (d) of this section, except the "X" is replaced with the letter "R".

(11) For designation of requalification of a foreign cylinder requalified in conformance with §§ 171.23(a)(5) of this subchapter and 180.209(l), the marking is as illustrated in paragraph (d) of this section, except that the "X" is replaced with the letters "EX" to indicate that the cylinder is for export only.

(g) *Visual inspection requalification markings.* (1) Alternative to the marking requirements of paragraphs (d) and (f)(5) of this section, each cylinder successfully passing a visual inspection only, in accordance with § 180.209(g), may be marked with the visual inspection number (e.g., V123456) issued to a person performing visual inspections. Examples of the way the markings may be applied are as follows:

Figure 2 to Paragraph (g)(1)

03	V123 14 E 654	V123456 0314 E
0314 E V123456		V123456 0314E
0314 E V123456		

(2) Where:

- (i) "03" is the month of requalification (the additional numeral "0" is optional);
- (ii) "V123456" is the RIN;
- (iii) "14" is the year of requalification; and
- (iv) "E" to indicate visual inspection.

■ 50. In § 180.215, revise paragraphs (a)(6), (b), and (c)(2)(vii) and add paragraph (c)(3) to read as follows:

§ 180.215 Reporting and record retention requirements.

(a) * * *

(6) The information contained in each applicable CGA or ASTM standard incorporated by reference in § 171.7 of this subchapter applicable to the qualifier's activities.

(b) *Requalification records.* Daily records of visual inspection, pressure test, eddy current examination if required, and ultrasonic examination if permitted under a special permit, as applicable, must be maintained by the person who performs the requalification until either the expiration of the requalification period or until the cylinder is again requalified, whichever occurs first. A single date may be used for each test sheet, provided each test on the sheet was conducted on that date. Ditto marks or a solid vertical line may

be used to indicate repetition of the preceding entry for the following entries only: Date; actual dimensions; manufacturer's name or symbol, if present; owner's name or symbol, if present; and test operator. Blank spaces may not be used to indicate repetition of a prior entry. A symbol may be used for the actual dimensions if there is a reference chart available at the facility that lists the actual dimensions of every symbol used. The records must include the following information:

(1) *Calibration test records.* For each test to demonstrate calibration, the date; serial number of the calibrated cylinder; calibration test pressure; total, elastic and permanent expansions; and legible identification of test operator. The test operator must be able to demonstrate that the results of the daily calibration verification correspond to the hydrostatic tests performed on that day. The daily verification of calibration(s) may be recorded on the same sheets as, and with, test records for that date, or may be recorded on a separate sheet.

(2) *Pressure test and visual inspection records.* The date of requalification; serial number; DOT-specification or special permit number; marked

pressure; actual dimensions; manufacturer's name or symbol, if present; year of manufacture; owner's name or symbol, if present; gas service; result of visual inspection; actual test pressure; total, elastic and permanent expansions; percent permanent expansion; disposition, with reason for any repeated test, rejection or condemnation; and legible identification of test operator. For each cylinder marked pursuant to § 173.302a(b)(5) of this subchapter, the test sheet must indicate the method by which any average or maximum wall stress was computed. Records must be kept for all completed, as well as unsuccessful tests. The entry for a repeated test must indicate the date of the earlier test, if conducted on a different day.

(3) *Wall stress.* Calculations of average and maximum wall stress pursuant to § 173.302a(b)(3) of this subchapter, if performed.

(4) *Calibration certificates.* The most recent certificate of calibration must be maintained for each calibrated cylinder, pressure indicating device, and expansion indicating device.

(c) * * *