
STATUTORY INSTRUMENTS

1983 No. 1390

**The Measuring Equipment (Liquid Fuel
delivered from Road Tankers) Regulations 1983**

PART IV

TESTING

Contents gauging systems

37. Regulations 38 to 42 below apply to contents gauging systems.

38.—(1) No contents gauging system shall be tested unless it is installed ready for use and complete with all its parts and ancillary equipment concerned in the operations of measurement and delivery as described in the certificate of approval.

(2) Every contents gauging system shall be tested by an inspector under the approved working conditions, with a liquid fuel which it is designed to deliver, or with a liquid specified in the certificate of approval.

39. For the purposes of the performance by an inspector of his functions under the Act or these Regulations relating to inspection, testing, passing as fit for use for trade and stamping of a contents gauging system, a person submitting such a system to an inspector or who an inspector has reasonable cause to believe has possession of such a system for use for trade shall, if requested, provide for the inspector's use such liquids as the inspector may reasonably require, and any liquids so provided shall be returned to the person in question.

40. An inspector shall test a contents gauging system using—

- (a) local standards of capacity; or
- (b) a reference meter; or
- (c) other equipment, being measures of capacity forming part of a fixed installation or being mounted on a vehicle or trailer, which has been tested in a manner which the inspector considers suitable, and adjusted, within the last twelve months, so as not to have any apparent error.

41.—(1) An inspector may open any locked or sealed container for the purpose of testing a contents gauging system or for the return of liquid withdrawn during testing, and any liquid so withdrawn shall, upon conclusion of the test, be forthwith returned to the container from which it was withdrawn if the inspector is of the opinion that it is practicable and desirable so to do and the proprietor or person in charge of the equipment does not object; otherwise, it shall be placed in another suitable receptacle reasonably convenient for the purpose and nominated and provided by the proprietor or person in charge of the equipment.

(2) The inspector, if requested, shall give to the proprietor or person in charge of the said equipment a signed and dated statement of the quantity of such liquid withdrawn from the container and returned or placed as aforesaid.

42. An inspector shall securely re-fasten any container opened under Regulation 41(1) above immediately after the conclusion of the test and the return of the liquid withdrawn during testing or its placing in another receptacle; and for this purpose he shall replace any seal or link broken by him in opening the said container with a seal upon which he shall affix the stamp.

Meter measuring systems

43. Regulations 44 to 50 below apply to meter measuring systems.

44.—(1) No meter measuring system shall be tested unless it is installed ready for use and complete with all its parts and ancillary equipment concerned in the operations of measurement and delivery as described in any certificate of approval.

(2) Every meter measuring system shall be tested by an inspector under the approved working conditions, with a liquid fuel which it is designed to deliver, or with a suitable liquid of similar viscosity.

45. For the purposes of the performance by an inspector of his functions under the Act or these Regulations relating to inspection, testing, passing as fit for use for trade and stamping of a meter measuring system a person submitting such a system to an inspector or who an inspector has reasonable cause to believe has possession of such a system for use for trade shall, if requested, provide for the inspector's use such liquid fuel as the inspector may reasonably require, and any liquid fuel so provided shall be returned to the person in question.

46. A meter measuring system shall be tested at rates of flow which are not more than the approved maximum and not less than the approved minimum, the rate of flow being maintained as uniform as practicable.

47. An inspector shall test a meter measuring system using—

- (a) local standards of capacity; or
- (b) a reference meter; or
- (c) other equipment, being measures of capacity forming part of a fixed installation or being mounted on a vehicle or trailer, which has been tested in a manner which the inspector considers suitable, and adjusted, within the last twelve months, so as not to have any apparent error.

48.—(1) An inspector may open any locked or sealed container for the purpose of testing a meter measuring system or for the return of liquid withdrawn during testing, and any liquid so withdrawn shall, upon conclusion of the test, be forthwith returned to the container from which it was withdrawn if the inspector is of the opinion that it is practicable and desirable so to do and the proprietor or person in charge of the equipment does not object; otherwise, it shall be placed in another suitable receptacle reasonably convenient for the purpose and nominated and provided by the proprietor or person in charge of the equipment.

(2) The inspector, if requested, shall give to the proprietor or person in charge of the said equipment a signed and dated statement of the quantity of such liquid withdrawn from the container and returned or placed as aforesaid.

49. An inspector shall securely re-fasten any container opened under Regulation 48(1) above immediately after the conclusion of the test and the return of any liquid withdrawn during testing or its placing in another receptacle; and for this purpose he shall replace any seal or link broken by him in opening the said container with a seal upon which he shall affix the stamp.

50.—(1) An inspector shall not test a meter measuring system in accordance with this Part of these Regulations where an occurrence of the type mentioned in Regulation 65 below has occurred,

unless having tested the operation of the meter and gas separator, he concludes that further testing of the accuracy of the system is necessary.

(2) An inspector shall not test a meter measuring system in accordance with this Part of these Regulations where an occurrence of the type mentioned in Regulation 66 below has occurred; in such a case he shall test the system in such way as he considers appropriate to establish the correct operation of its parts affected by the occurrence or, where appropriate, their replacements.

Dipstick measuring systems

51. Regulations 52 to 55 below apply to dipstick measuring systems.

- (a) **52.** (1) (a) Except in the case of a dipstick tested by reference to a calibration chart as mentioned in paragraph (2) below, a dipstick associated with a compartment shall be tested by inserting into, or withdrawing from, the compartment known volumes of liquid and determining the position of the scale mark on the dipstick when the road tanker is on a level surface
- (b) The known volumes in paragraph (a) above shall be determined using—
- (i) local standards of capacity; or
 - (ii) a reference meter; or
 - (iii) other equipment, being measures of capacity forming part of a fixed installation or being mounted on a vehicle or trailer, which has been tested in a manner which the inspector considers suitable, and adjusted, within the last twelve months, so as not to have any apparent error.

(2) A dipstick associated with a compartment may be tested by comparing the distance of every scale mark from the datum surface with that given on the calibration chart in respect of the compartment, unless any alteration, addition, damage or repair has been effected to the compartment which in the opinion of the inspector has invalidated the calibration chart, in which case the inspector shall not use a calibration chart to test a dipstick until a new calibration chart has been prepared.

(3) On testing a dipstick associated with a compartment an inspector shall inspect the compartment unless the calibration chart was prepared not more than 42 days before testing, in which case testing may be carried out with the dipstick and calibration chart only being present.

(4) Not more than two dipsticks relating to a compartment forming part of a dipstick measuring system may be passed as fit for use for trade on any one occasion.

53. For the purposes of the performance by an inspector of his functions under the Act or these Regulations relating to inspection, testing, passing as fit for use for trade and stamping of a dipstick measuring system a person submitting such a system to an inspector or who an inspector has reasonable cause to believe has possession of such a system for use for trade shall, if requested, provide for the inspector's use such products as the inspector may reasonably require, and any products so provided shall be returned to the person in question.

54. An inspector shall use, in testing any dimensional measurement in a dipstick measuring system—

- (a) a rigid local standard of length; or
- (b) a material measure of length to which Council Directive No [73/362/EEC](#)(1) applies bearing the mark of EEC initial verification and an indication that it is of accuracy class I which—
 - (i) is divided into 1 mm intervals throughout, and

(1) as amended by Council Directive No. [78/629/EEC](#).

- (ii) has been tested in a manner which the inspector considers suitable within the previous 10 years and found not to have errors exceeding those permitted by item 7.4 of the Annex to the said Directive; or
 - (c) a rigid linear measure of appropriate length which—
 - (i) is divided into 1 mm intervals throughout, and
 - (ii) has been tested in a manner which the inspector considers suitable within the previous 10 years and found not to have errors in excess or in deficiency of 0.25 mm per whole metre or part of a metre; or
 - (d) other equipment for measuring length of suitable form and durability which has been tested in a manner which the inspector considers suitable and found not to have any error in excess or in deficiency of 0.25 mm per whole metre or part of a metre.
- 55.** Tanks submitted for testing shall be clean.