

- (i) Resistances (if any) shall be placed in a fire-resisting enclosure and in such a position that any heat generated will not prejudicially affect any other apparatus; and
- (j) Transformers shall be placed in a fire-resisting enclosure; and
- (k) No unenclosed sign, outline or decorative lighting shall be erected at a less height than 7 ft. 6 in. above any public footpath; and
- (l) Every enclosure for resistances or transformers exposed to the weather shall be weatherproof, and the lids shall be securely fixed by means of screws or bolts; and
- (m) Live metal in the secondary circuit, if not enclosed in suitable insulating material, shall be spaced not less than 2 in. from earthed metal; and
- (n) Means shall be provided for the immediate automatic discharge (*e.g.*, by a high-resistance leak) of every condenser on disconnection of the supply.

PART 58.—GENERAL.

BATHROOMS.

58-01. No portable appliance shall be used in any bathroom.

58-02. Where an open element is used in any appliance in any bathroom it shall be effectively guarded.

PART 59.—ADDITIONS TO AND ALTERATIONS OF INSTALLATIONS.

59-01. All dead or disused conductors, fittings, accessories, appliances, and apparatus:—

- (a) Which do not conform to these regulations shall either be removed from the building or be rendered useless for electrical purposes to the satisfaction of the Authorized Inspector.
- (b) Which do conform to the regulations shall be maintained free from electrical hazard.

DIVISION VI.—INSPECTION AND TESTING.

PART 61.—INSPECTION.

MANHOLES AND TRAPS.

61-01. Manholes shall be provided in ceilings to facilitate access to the roof of every building for the purposes of inspection.

61-02 Traps shall, where practicable, be provided at all inspection fittings and draw-in boxes, and such traps shall be securely fastened by means of screws.

INSPECTION ON BEHALF OF MINISTER.

61-11. (1) Any person authorized in writing in that behalf by the Minister may at any time, between the hours of 9 a.m. and 5 p.m. on any day of the week other than Sunday, demand admission to the premises of any consumer for the purpose of ascertaining whether the requirements of these regulations have been complied with.

(2) The consumer shall render such person every reasonable facility for inspecting and testing the installation.

(3) If any consumer refuses to admit such person during such hours the electrical supply authority shall, on demand in writing by the Chief Electrical Engineer, discontinue to supply electrical energy to such consumer.

INSPECTION OF ACCESSORIES, APPARATUS, APPLIANCES, FITTINGS AND MATERIALS.

61-21. (1) All accessories, apparatus, appliances, fittings, and materials submitted to the Chief Electrical Engineer for inspection shall bear an indelible mark suitable for identification purposes, and where any such accessory, apparatus, appliance, fitting, or material is to be returned, it shall be accompanied by a photograph of suitable dimensions for identification, illustration, and record purposes.

(2) A sample of the accessory, apparatus, appliance, fitting, and/or material submitted may be retained by the Chief Electrical Engineer.

(3) Where any accessory, apparatus, appliance, fitting or material is considered unsatisfactory by an Authorized Inspector, it may be submitted to the Chief Electrical Engineer for inspection, in which case it shall be accompanied by a statement setting out in full the objections of the Authorized Inspector to its use,

61-22. Fees in accordance with the following scale shall be forwarded to the Chief Electrical Engineer with every application for inspection of any accessory, apparatus, appliance, fitting or material:—

(a) Where the approval of the Chief Electrical Engineer is required by these regulations—

	£	s.	d.
(1) Where no test is required	0	10	6
(2) In every other case	2	2	0
(b) In all other cases—			
(i) Where no test is involved	1	1	0
(ii) Where any test is involved—			
(1) Capacity up to and including 3 kw.	2	2	0
(2) Capacity over 3 kw. and not over 10 kw.	3	3	0
(3) Capacity over 10 kw. and not over 100 kw.	5	5	0
(4) Capacity over 100 kw.	10	10	0
(5) Cables, each test	2	2	0
(6) Insulating material, each test	2	2	0
(7) Articles not specially mentioned, minimum	2	2	0

PART 62.—TESTS.

SWITCHES AND CIRCUIT-BREAKERS.

62-01. (1) Every tumbler switch, rotary snap switch, and the like, not exceeding 15-amperes rating shall be capable of withstanding the following tests in the order named, save that new samples may be used for the endurance test:—

- (a) An overload test of 33 $\frac{1}{3}$ per cent. greater amperage than its rated capacity. The switch shall be operated slowly for fifty makes and fifty breaks at the approximate rate of ten makes and ten breaks a minute, and shall make and break the circuit sharply and with a quick snap.
- (b) An endurance test, at rated current, of six thousand makes and six thousand breaks. The switch shall be tested by means of a power-driven testing-machine at a rate not exceeding ten makes and ten breaks a minute.

At the completion of each test each switch shall be in good operating condition and show practically no damage to contacts or other parts.

All covers of switches shall be in position and where they are of metal they shall be earthed throughout the test.

The tests shall be carried out at a pressure of 250 volts and for the overload test prescribed by paragraph (a) of this regulation direct current shall be used. The circuit shall be non-inductive and one side shall be earthed.

Lubrication of the switch and its contacts, such as is desirable during use of the switch, may be carried out at any stage of the tests.

The switch may be operated for one hundred makes and one hundred breaks without load or pressure prior to being subjected to any test.

Six switches shall be selected at random from any consignment or batch. Should more than one of the six switches prove unsatisfactory a further selection at random of six switches shall be made and tested. Should more than one switch of the second selection also prove unsatisfactory the switches as a whole shall be deemed not to comply with these regulations.

(2) All other switches, fuse-switches and circuit-breakers shall be capable of withstanding the tests prescribed by the appropriate British Standard Specification or some other approved test.

CUT-OUTS.

62-11. Every cut-out shall be capable of withstanding the tests prescribed by British Standard Specification No. 88 or some other approved test.

PLUGS AND SOCKETS.

62-21. Every plug and socket not exceeding 10-amperes rating, and used without an interlocked switch, shall be capable of breaking 50 per cent. greater amperage than its rated capacity, ten times at $\frac{1}{4}$ -minute intervals, a direct current at a pressure of 250 volts in a non-inductive circuit without permitting an arc to be maintained.

CABLES AND FLEXIBLE CORDS.

62-31. Cables insulated with vulcanized-rubber or impregnated paper shall be capable of withstanding the pressure test and other tests specified in British Standard Specification No. 7, or British Standard Specification No. 480 (as the case may be). Subsequent to such pressure test, and whilst the cable is still immersed in water, the insulation resistance at