STATUTORY INSTRUMENTS

1990 No. 888

RESTRICTIVE TRADE PRACTICES

The Restrictive Trade Practices (Standards and Arrangements) Order 1990

Made - - - -	*9th April 1990*
Laid before Parliament	*10th April 1990*
Coming into force	*11th April 1990*

The Secretary of State for Trade and Industry, in exercise of the powers conferred on him by sections 9(5) and 18(5) of the Restrictive Trade Practices Act 1976 **(a)**, hereby makes the following Order:–

Citation, commencement and interpretation

1.—(1) This Order may be cited as the Restrictive Trade Practices (Standards and Arrangements) Order 1990 and shall come into force on 11th April 1990.

(2) In this Order

"the 1976 Act" means the Restrictive Trade Practices Act 1976;

"arrangements" means, in respect of the production, supply or acquisition of any goods or the application to goods of any process of manufacture, arrangements as to the provision of information or advice to purchasers, consumers or users and, in respect of making available, supplying or obtaining any designated services within the meaning of the 1976 Act, arrangements as to the provision of information or advice to persons to or by whom designated services are supplied or agreed to be supplied;

"standards" means, in respect of the production, supply or acquisition of any goods or the application to goods of any process of manufacture, standards of dimension, design, quality or performance and, in respect of making available, supplying or obtaining any designated services within the meaning of the 1976 Act, standards of performance in the provision of the services or standards of dimension, design, quality or performance in respect of goods used in providing them.

Approval of standards and arrangements

2.—(1) The standards specified in Part I of the Schedule to this Order, being standards adopted by Electricity Association Services Limited on 6th April 1990 are hereby approved for the purposes of sections 9(5) and 18(5) of the 1976 Act.

(a) 1976 c.34.

(2) The arrangements specified in Part II of the Schedule to this Order, being arrangements adopted by Electricity Association Services Limited on 6th April 1990, are hereby approved for the purposes of sections 9(5) and 18(5) of the 1976 Act.

John Redwood
Parliamentary Under Secretary of State,
Department of Trade and Industry

9th April 1990

SCHEDULE

Article 2

PART I

STANDARDS APPROVED

06–1	Safety belts, harnesses and associated equipment Issue 2, 1984
09–1	Lead sleeves for electric cables (metric units) Issue 1, 1970
09–2	The installation of 33kV and higher voltage power cables and associated auxiliary cables Issue 3, 1983
09–3	33kV impregnated paper insulated oil-filled and gas pressure type power cable systems Issue 2, 1982
09–4	66kV and 132kV impregnated paper insulated, oil-filled and gas pressure type power cable systems Issue 2, 1981
09–5	275kV and 400kV impregnated paper insulated, oil-filled and gas compression type power cable systems Issue 2, 1981
09–6	Auxiliary multicore and multipair cables Issue 6, 1988
09–7	PVC insulated concentric service cables with stranded copper or solid aluminium phase conductors and copper concentric conductors Issue 4, 1981
09–8	Impregnated paper insulated 600/1000 volt cable with three solid aluminium phase conductors and aluminium sheath/neutral conductor (Consac) Issue 4, 1977
09–9	Polymeric insulated, combined neutral/earth (CNE) cables with solid aluminium phase conductors and concentric aluminium wire waveform neutral/earth conductor Issue 5, 1981
09–10	Porcelain insulators for 33kV, 66kV 132kV, 275kV and 400kV pressure-assisted cable outdoor sealing ends Issue 1, 1976
09-11	Heat shrinkable insulating materials for use with 600/1000V cables and accessories Issue 1, 1975
09–12	Impregnated paper insulated corrugated aluminium sheathed 6350/11,000 volt cable Issue 1, 1979
09–13	Performance specification for high voltage heat shrinkable components for use with high voltage solid type cables up to and including 33,000 volts Issue 1, 1981
09–15	Jointing instructions and procedures for mass impregnated and mass impregnated non-draining paper insultated 19/33kV cables

Part 1: Jointing instructions
Issue 2, 1989

Part 2: Jointing procedures
Issue 2, 1989

09–16 Testing specification for metallic sheathed power cables with extruded cross-linked polyethylene insulation and accessories for system voltages of 66kV and 132kV
Issue 1, 1983

09–17 Single core cables for use in substations having extruded insulation and a rated voltage of 6350/11,000 volts
Issue 1, 1984
Corrigendum 1, 1987

09–19 Synthetic hydrocarbon insulating oil for use in oil-filled pressure-assisted cables up to 132kV operating voltage
Issue 1, 1986

09–20 33kV Single Core hv polymeric insulated cable
Issue 1, 1990

12–3 Outdoor meter cupboards
Issue 2, 1986

12–4 Terminating equipment for pilot cables subject to induced transient voltages exceeding 650V rms
Issue 1, 1973

12–5 Indicating lamps-filament type
Issue 1, 1972

12–6 Time fuse-links
Issue 1, 1973

12–8 The application of fuse-links to 11kV/415V and 6.6kV/415V underground distribution networks
Issue 2, 1986

12–9 Wiping glands for metallic-sheathed cables
Issue 2, 1980

12–10 Single phase domestic cut outs up to 100A rating
Issue 1, 1977

12–11 Indoor and outdoor cable boxes for switchgear
Issue 2, 1981

12–12 Compounds for use in 33kV solid type cable accessories
Issue 1, 1977

12–14 Impregnated crepe paper for cable jointing in solid type cable accessories
Issue 1, 1976

12–15 Weak-back ferrules for electric power cable jointing on solid-type cables up to and including 11kV
Issue 1, 1978

12–16 Fuse-switch trip testing device
Issue 1, 1978

12–18 Polyester resin/glass fibre protection boxes and protective shrouds for oil-filled and gas-pressure cable accessories
Issue 1, 1980

12–19 Single phase street lighting cut-outs-25A rating
Issue 1, 1982

12–20 Low voltage pole-mounted fuses
Issue 1, 1984
Corrigendum 1, 1986

12–23 Polythene protection tape for buried electricity supply cable
Issue 1, 1988

12–24 Plastic ducts for buried electric cables
Issue 1, 1989

13–1 Portable glass fibre ladders and steps
Issue 1, 1987

23–2 Code of practice for post weld heat treatment (electrical resistance heating elements)
Issue 2, 1983

23–3 Titanium tubes for heat exchangers and condensers
Issue 3, 1989

23–4 Seamless steel feed water heater tubes for high pressure applications
Issue 2, 1989

26–1 Insulating foam-filled tube and solid rod for live working
Issue 2, 1977

26–2 Insulating tools for live working on high voltage overhead lines
Issue 1, 1978

26–3 Hand held tools for live low voltage working
Issue 2, 1984

26–4 Overhead line conductor erection clamps-test specification and test certificates
Issue 1, 1980

35–1 Distribution transformers (from 16kVA to 1000kVA)
Issue 4, 1985

35–2 Emergency rated system transformers (35/11.5kV delta/star and star/star connected)
Issue 4, 1982

35–5 Generator voltage transformers for 500/660 MW turbo-generators
Issue 1, 1980

35–6 Generator voltage transformers for gas turbines
Issue 1, 1980

35–14 Formel NF filled transformers
Issue 1, 1984

37–1 415V ac switchgear, controlgear and fusegear
Issue 2, 1977

37–2 L.V. distribution fuseboards
Issue 2, 1984

37–3 A.C. metal-enclosed switchgear and controlgear of rated voltages 3.6kV and 12kV

Part 1 – Circuit breaker equipment (air-break)
Issue 1, 1981

Part 2 – Fused switching device equipment of 3.6kV rated voltage
Issue 1, 1981

41–1 3.3kV 150 MVA airbreak switchgear-floor details and building requirements
Issue 1, 1969

41–2 11kV distribution switchgear (floor details)
Issue 2, 1976

41–4 11kV 500 and 750 MVA airbreak switchgear floor details and building requirements
Issue 1, 1970

41–5 Requirements for 12kV distribution metal-enclosed indoor switchgear
Issue 3, 1983

41–6 132kV outdoor busbar type substations with aluminium connections
Issue 1, 1974

41–7 132kV outdoor substations extensible up to four-switch mesh
Issue 1, 1980

41–8 132kV compact transformer feeder substations
Issue 1, 1980
Amendment 1, 1988

41–9 Insulating oil handling and storage equipment for 132kV outdoor substations
Issue 1, 1974

41–10 Switchgear for use on 66, 132, 275 and 400kV systems
Issue 3, 1989

41–11 Tubular aluminium busbars, connections and terminal fittings for 132kV outdoor substations
Issue 2, 1982

41–12 Non-extensible ring main equipments, (incorporating an automatic fuse-switch and switches ratings: 250 MVA at 11kV and 150 MVA at 6.6kV)
Issue 2, 1975
Corrigendum No. 1, 1987

41–13 Air break switch-disconnectors 12kV to 36kV for use on overhead lines
Issue 1, 1978

41–15 Standard circuit diagrams for equipment in 132kV substations

Part 1: Transformer feeder, transformer end
Isue 1, 1978

Part 2: Transformer feeder, transformer end 132/11/11kV dual secondary
Issue 1, 1978

Part 3: Arrangements for locally banking two transformers. Transformer end of a transformer-feeder
Issue 1, 1982

Part 4: 132kV busbar substation feeder-circuits
Issue 1, 1983

Part 5: Intertripping over voice frequency channels
Issue 2, 1988

Part 6: Standard circuit diagrams for equipment in 132kV substations. Bus-section and bus-coupler
Issue 1, 1990

Part 7: Arrangements for locally banking a transformer with a feeder at a busbar station
Issue 1, 1988

Part 8: 132kV busbar station – busbar protection
Issue 1, 1986

Part 9: Standard circuit diagrams for equipment in 132kV substations ac traction supplies to British Rail
Issue 1, 1990

41–16 Apparatus terminations, conductor sizes and associated fittings (copper) used in outdoor and indoor substations with outdoor equipment
Issue 2, 1981

41–18 Arrangements for partial discharge testing of bushings, capacitors, instrument transformers and switchgear of rated voltage 7.2 – 425kV inclusive
Issue 1, 1988

41–19 Open type switchgear for use on 33kV systems
Issue 1, 1979

41–21 Portable earthing equipment for open type hv apparatus in substations
Issue 1, 1985

41–22 Metal-enclosed switch, switch-disconnector and earthing switch combinations (ratings 12.5, 16 and 20kA at 7.2kV and 12kV)
Issue 1, 1982

41–23 Metal-enclosed automatic fuse-switch equipment (ratings 12.5, 16 and 20kA at 7.2kV and 12kV)
Issue 1, 1982

43–1 Survey and preparation of ground line profiles and plotting of tower positions for steel tower overhead transmission lines at 132kV and higher voltages
Issue 2, 1986

43–2 Design of steel tower overhead transmission lines at 132kV and higher voltages
Issue 1, 1972
Corrigendum 1989

43–3 Design of lattice steel transmission towers for overhead lines at 132kV and higher voltages
Issue 1, 1972

43–4 Design of foundations for steel towers for overhead transmission lines at 132kV and higher voltages
Issue 2, 1986

43–5 Fabrication and galvanising of tower and foundation steelwork for overhead transmission lines at 132kV and higher voltages
Issue 2, 1986
Corrigendum 1988

43–6 Construction of overhead transmission lines on steel towers for 132kV and higher voltages
Issue 2, 1986

43–7 132kV steel tower transmission lines:
Specification L4(M)–1978
Issue 2, 1985

43–8 Overhead line clearances
Issue 2, 1988
Amendment 1989

43–9 132kV steel tower transmission lines specification L.7(C)–1978 2 x 175mm^2 ACSR per phase – 1 x 175mm^2 ACSR earthwire
Issue 1, 1986

43–11 400kV steel tower transmission lines-specification L.12 (2 x 700mm^2 AAAC per phase) (1 x 425mm^2 AAAC earthwire)
Issue 1, 1984

43–12 Insulated aerial bundled conductors erection requirements for 1v overhead distribution systems
Issue 1, 1986
Corrigendum 1, 1987
Corrigendum 2, 1988

43–13 Aerial bundled conductors (ABC) insulated with cross-linked polyethylene for low voltage overhead distribution
Issue 1, 1986
Corrigendum September 1987

43–14 Conductor fittings and associated apparatus for use with 1v aerial bundled conductors
Issue 1, 1989

43–15 Insulator binds and equivalent helical fittings for overhead lines
Issue 1, 1988

43–30 Low voltage overhead lines on wood poles
Issue 2, 1981

43–40 High voltage single circuit overhead lines on wood poles
Issue 1, 1988

43–50 132kV single circuit overhead lines on wood poles
Issue 1, 1984
Corrigenda April and July 1985
Corrigendum December 1987

43–81 Portable earthing equipment for high voltage overhead lines up to and including 66kV
Issue 1, 1984

43–88 Treatment of wood poles and associated timber for overhead lines
Issue 3, 1988

43–90 Anti-climbing devices for hv lines up to and including 400kv
Issue 2, 1979

43–91 Stay strands and stay fittings for overhead lines
Issue 4, 1984

43–92 Conductor fittings for overhead lines
Issue 2, 1985
Corrigendum 1986

43–93 Line insulators
Issue 3, 1986
Corrigendum December 1986

43–94 Earth rods and their connectors
Issue 2, 1977

43–95 Steelwork for overhead lines
Issue 5, 1989

43–96 Fasteners and washers for wood pole overhead lines
Issue 2, 1986

43–97 Steel overhead line supports
Issue 1, 1990

44–1 Carbon brushes (for rotating electrical machines)
Issue 2, 1971

44–2 Electric motors – dimensions
Issue 1, 1970

44–3 Electric motors – specification (3300V and above)
Issue 2, 1980
Erratum 1983

44–4 Electric motors – specification (415V and below, 0.75kW and above)
Issue 2, 1980

44–5 Testing the insulation systems of stator coils for rotating electrical machines
Issue 4, 1987

44–7 Testing the insulation systems of bars (half coils) for rotating electrical machines of turbine driven and hydro-generator types
Issue 1, 1978

48–1 Static relays – dimensions
Issue 1, 1969

48–2 Fault passage indicators for 6.6kV and 11kV underground and overhead distribution systems
Issue 1, 1974

48–3 Instantaneous high-impedance differential protection
Issue 1, 1977
Amendment 1, 1987

48–4 D.C. relays associated with a tripping function in protection systems
Issue 3, 1983

50–1 Direct reading pressure gauges (for oil-filled cable systems)
Issue 2, 1977

50–2 Bimetallic ammeters
Issue 1, 1975

50–3 Code for transmitting and recording metering and associated information
Issue 1, 1975

50–4 Analogue direct current signal for plant instrumentation and control systems
Issue 1, 1978
Addendum 1979

50–5 Standardised contact sensing circuits
Issue 1, 1983

50–6 Pressure switches for oil-filled cable systems
Issue 1, 1986

50–7 Token-operated prepayment watt-hour meter – Class 2
Issue 1, 1986

50–8 Token acceptor for operation in conjunction with credit watt-hour meter
Issue 1, 1986

50–18 Design and application of ancillary electrical equipment
Issue 2, 1989

56–1 Ferritic steel valve castings
Issue 2, 1989

62–1 Boiler feed pump impeller castings
Issue 1, 1981

62–2 Ash pumps
Issue 2, 1988

62–3 Main circulating water pump impeller castings
Issue 1, 1983

62–4 Inspection and testing of boiler feed pump shafts, casings, impellers and diffusers
Issue 1, 1983

66–1 0.5% Chromium, molybdenum, vanadium steel castings for steam turbines
Issue 2, 1989

66–2 2.25% Chromium, molybdenum steel castings for steam turbines
Issue 1, 1989

66–3 Carbon steel castings for steel turbines
Issue 1, 1989

68–1 Tubes and tube assemblies for boilers
Issue 2, 1988

68–2 Acceptance levels for radiographic examination of flash butt welds in steel tubes
Issue 1, 1983

98–1 Surface preparation and paint finishing of new plant and equipment
Issue 1, 1971

98–2 Ultrasonic probes
Issue 1, 1979

98–4 Ultrasonic testing of ferritic steel castings
Issue 2, 1989

98–5 Automatic ultrasonic testing of steel tubes

Part 1: Seamless and welded tubes, outside diameters of 12mm up to but not including 160mm
Issue 3, 1989

Part 2: Seamless tubes, outside diameters 160mm and above
Issue 3, 1989

Part 3: Longitudinally submerged arc welded steel tubes, outside diameters 160mm and above
Issue 2, 1989

Part 4: Longitudinally electric resistance and induction welded steel tubes, outside diameters 160mm and above
Issue 2, 1989

98–6 Ultrasonic testing of ferritic steel plate
Issue 1, 1981

98–7 Ultrasonic probes: normal (0°) compression wave probes for contact testing
Issue 1, 1982

98–8 Ultrasonic probes: low frequency single crystal shear wave angle probes
Issue 1, 1982

98–9 Ultrasonic flaw detectors
Issue 1, 1985
Amendment No.1 1987

98–10 Manual ultrasonic testing of welds in ferritic steel sections

Part 1: Butt welds in ferritic steel sections greater than 10mm thick
Issue 2, 1984

Part 2: Nozzle, branch, stub and attachment welds
Issue 1, 1983

Part 3: Butt welds in tubes of outside diameters between 25mm and 120mm inclusive
Issue 2, 1984

Part 4: Guidance on inspection capability and joint design
Issue 1, 1988

98–11 Radiographic testing of steel castings
Issue 2, July 1989

98–12 Calibration and routine performance checks of ultrasonic NDT equipment
Issue 1, 1989

98–13 Manual ultrasonic testing of forgings for turbine and generator rotors, shafts and discs
Issue 2, 1989

98–14 Ultrasonic testing procedures for non-magnetic generator coil retaining ring forgings
Issue 2, 1989

98–15 Automatic eddy current testing of tubes

Part 1: Detection of imperfections in welded titanium tubes
Issue 2, 1989

Part 2: Verification of hydraulic leak tightness of steel tubes
Issue 2, 1989

Part 3: Detection of imperfections in steel tubes
Issue 2, 1989

98–16 Defect evaluation and size estimation by the manual ultrasonic testing method
Issue 1, 1989

98–17 Radiographic examination of fusion welded butt joints in steel
Issue 1, 1989

98–18 Capability of magnetic particle inspection
Issue 1, 1989

98–19 Acceptance criteria for pipe circumferential butt welds
Issue 1, 1989

98–20 Penetrant flaw detection capability
Issue 1, 1989

98–21 Magnetic particle and dye penetrant testing materials. Chemical compatibility and health hazards
Issue 1, November 1989

98–22 Capability of ultrasonic testing of ferritic steel forgings
Issue 1, 1989

98–23 Ultrasonic and visual inspection of components lined with tin based white metal
Issue 1, 1989

CJ1101M Vertical, horizontal or inverted indoor sealing end for 6350/11,000V single-core cables up to and including 1000mm^2 (does not provide for the jointing of milliken conductored cable)
1976

CJ1102M Vertical outdoor sealing end for 6350/11,000V single-core cables up to and including 1000mm^2 (does not provide for the jointing of milliken conductored cable)
1976

CJ1103 Crepe paper insulated straight through joints for belted three-core 11kV pre-impregnated or mass-impregnated non-draining solid type cables with stranded aluminium conductors
1970

L6 400kV steel tower transmission lines with 4 x 0.4 sq.in. cu equiv SCA conductors per phase
1966
Amendment 1, 1969

M3 Restricted hour and time of day tariff time switches
1973

S1 General technical specification for standard 33kV indoor metalclad switchgear, 750MVA and 1000MVA ratings
1965
Errata slip, 1965

S10 Standard steelwork, etc for 11kV pole-mounted air-break isolators
1963

S12 Standard numbering for small wiring for switchgear and transformers together with their associated relay and control panels

1964
Amendment 1, 1969

S17 Partial discharge testing of demountable synthetic resin-bonded and oil-impregnated paper bushings of rated voltage 22kV and above
1968

T2 Transformers and reactors
1966

Interim index and general requirements

Schedules of general particulars and guarantees

Section 1: Generator station and unit transformers

Section 2: Transmission transformers (excluding auto-transformers): general design and performance

Section 3: Auto-transformers: general design and performance

Section 4: Oil-immersed auxiliary transformers for power stations: general design and performance

Section 5: Air insulated auxiliary transformers for power stations: general design and performance

Section 6: Earthing and auxiliary transformers for transmission stations: general design and performance

Section 7: Oil-immersed series and shunt reactors

Section 8: Magnetic circuits

Section 9: Windings, connections and terminal markings

Section 10: Minimum safety and external air clearances and co-ordinating gaps

Section 11: Bushings and terminals
Revised 1976

Section 12: Cable boxes, cable sealing-end chambers and disconnecting chambers
Revision 2, 1988

Section 13: Noise and vibration
Amendment 1, 1970
Amendment 2, 1977

Section 14: Earthing systems and connections

Section 15: Tanks, conservator vessels and pressure relief devices
Amendment 1, 1976

Section 16: Valves, drain and air release plugs and oil sampling devices
Revision 1, 1982

Section 17: Cleaning and paint or other protective systems

Section 18: Dehydrating breathers

Section 19: Oil level gauges

Section 20: Radiators, cooling-banks and oil/water coolers
Amendment 1, 1976

Section 21: Rating and diagram plates, valve location and function plates, terminal identification plates and labels

Section 22: Oil circulating pumps

Section 23: Fans

Section 24: Motors

Section 25: Electrical control of cooling equipment

Section 26: Tap changing equipment (excluding single compartment types)

Section 27: Electrical control of on-load tap change equipment
Amendment 1, 1978
Errata slip, 1979

Section 28: Temperature indicators for oil immersed transformers and reactors
Revision 1, 1980

Section 29: Gas and oil-actuated relays

Section 30: Oil flow indicators, oil pressure gauges and differential pressure gauges

Section 31: Marshalling kiosks and cubicles

Section 32: Terminal housing for secondary wiring

Section 33: Control connections, instrument wiring, interconnecting cables, terminal blocks and fuses

Section 34: Drying out, transport and erection

T3 Transformers for 33kV and 22kV systems (up to 20 MVA)
1962
Amendment 1, 1964
Amendment 2, 1965
Amendment 3, 1966
Amendment 4, 1966
Amendment 5, 1969

Guide on impulse voltage testing power transformers and reactors

C1/7 Type approval tests for 33kV mass impregnated paper-insulated solid type cable systems including non-draining types
1981

C5 House service overhead systems (HSOS) cables
1951

C7/1 Use of earthed and unearthed type cables on 33kV and lower voltage systems
1952

C16 Colours of PVC conductor
1954

C25/2 Code of practice on the design of straight through branch and service joints for use on paper insulated lead sheathed cables operating at voltages up to 600/1000 volts
1973

C28/4 Type approval test for impregnated paper insulated gas pressure and oil-filled power cable systems from 33 to 132kV inclusive
1975
Amendment 1, 1978
Amendment 2, 1981

C34/1 Code of practice on the design of straight-through and branch joints for use on paper-insulated lead-sheathed cables operating at voltage from 3300V up to 11,000V
1976

C39/5 Identification of buried plastic sheathed cables
1975

C43/1 Dimensions of copper terminal stems for sealing ends of outdoor or indoor type but not oil-immersed sealing ends
1966

C46/1 Measures necesssary to prevent corrosion damage to buried metallic structures by neighbouring cathodic protection installations
1981

C47/1 Type approval tests for single-core impregnated paper-insultated gas pressure and oil-filled power cable systems for 275 and 400kV
1975
Amendment 1, 1978
Amendment 2, 1981
Amendment 3, 1983

C48/1 Type approval tests for anti-corrosion coverings for pressure type cables including pipeline cables
1974

C53 Vertical outdoor sealing ends for 22kV up to 1.5 sq in screened or unscreened mass-impregnated or non-draining solid type cables
1965

C55/4 Insulated sheath power cable systems
1989

C61 Installation bending radii of 33kV and higher voltage cables
1967

C62/3 Current ratings of copper and aluminium conductored PVC insulated and PVC sheathed HSOS cable
1971

C64 Testing procedure for approval of joints for cables generally to BEBS C5
1969
Amendment 1, 1969
Amendment 2, 1973
Amendment 3, 1977

C66/1 Type approval testing procedure: protective boxes for use with buried accessories employed on 33kV – 400kV insulated sheath power cable (and for sheath sectionalising insulation embodied in such accessories)
1979

C67 Specification for impregnated paper-insulated solid type cables for voltages up to and including 33,000 volts and PVC insulated cables for voltages up to and including 3300 volts
1970
Amendment 1, 1970
Amendment 2, 1971

C68 Method of terminating the carbon paper screen on 11kV belted multicore cables
1970

C79 Type approval tests for connectors and terminations for aluminium conductors of insulated power cables
1972
Amendment 1, 1981
Amendment 2, 1982

C81/3 Type approval tests for joints for 600/1000 volt cable systems
1986

C82 Pulling-in 11kV aluminium sheathed, consac and waveform cables
1977

C84 Operation of oil-filled cable systems
1976

C89 Performance specification for terminations on polymeric insulated cables rated at 12kV and 36kV maximum system voltage
1986

C90 Type approval tests for straight joints for 6350/11,000 volts three-core mass impregnated non-draining paper insulated solid cables
1984

C92 Performance specifications for pole top terminations on 6350/11,000V paper insulated cables
1987

Part 1: Non-metallic pole boxes for mass impregnated non-draining (MIND) solid type cable

C93 Type approval tests for mechanical connectors to metallic sheath of cables
1989

G5/3 Limits for harmonics in the UK electricity supply system
1976

G10 Standardisation of service intake arrangements for system building
1965

G12/2 National code of practice on the application of protective multiple earthing to low voltage networks
1982

G14 Protective multiple earthing: recommended principles of testing to ensure correct polarity
1971

G15 Standardisation of electricity supply arrangements in industrialised component buildings
1971

G16	Standard specification for a new single-phase service termination/metering up to 100A 1972
G17/3	Leakage of flammable gases: recommendations 1988
G18	Operation of air break isolating switches: recommendations 1974
G19/1	Model guidelines for operations or work on the premises of consumers receiving hv supply 1977
G21	Assessment of oil handling and storage plant requirements for 132kV outdoor substations 1975
G22/2	Superimposed signals on public electricity supply network 1984
G24	Code of practice for the safe operation of ground-mounted dependent manual closing oil switches and oil circuit breakers at 11kV and 6.6kV 1975
G27	Mobile radio systems – modulation in the VHF middle band 1975
G28/3	National Equipment Defect Reporting Scheme – notes of guidance 1989
G29	Farm hygiene: precautions to prevent spread of animal and poultry diseases 1977
G30/1	Guidance on pole top rescue procedures 1986
G31	Recommended colour code for control boards, diagrams and wall maps 1976
G32/1	Guide to safety in the storage, handling and use of highly flammable liquids and liquefied petroleum gases 1985
G35	Precautions to be taken by persons working in the vicinity of overhead lines on construction sites 1977
G38/1	Operational procedure associated with electricity supplies for traction purposes on a.c. and d.c. electrified lines 1985
G39	Model code of practice covering electrical safety in the planning, installation, commissioning and maintenance of public lighting and other street furniture 1979
G42/1	Overhead lines in the vicinity of recreational sites 1983
G44	Mandatory procedure for the co-ordination of power line carrier system frequencies 1980
G45/1	Notes of guidance for Electricity Boards on the use of irrigators, slurry guns and high pressure hoses in the vicinity of overhead lines 1983
G46	The maintenance of electrical plant and equipment up to and including 132kV 1981
G48	Remedial measures for Enfield 132kV gas compression cable sealing ends 1981
G49	Jointing instructions for 132kV and 275kV compression cables, fittings and ancillary equipment (Pirelli Enfield) 1981
G50	Maintenance of 132kV gas compression sealing ends 1986

G51	Guidance notes on control of access to high voltage compounds with disconnectors used in the fault interfering mode 1981
G53	Radio communications in an emergency – system design and operational recommendations to achieve maximum reliability and flexibility 1982
G54	Operational procedures for helicopter use within the ESI 1982
G55	The avoidance of danger from overhead electric lines and underground electric cables in forests and plantations 1983
G56	Special requirements for the access of Boards' staff to British Railways Board operational land for inspection purposes and work 1987
G57	Cable laying on agricultural land 1983
G58/1	Purchase, use, storage, inspection and maintenance of hand held insulated tools for live working up to 1000 volts 1986
G59	Recommendations for the connection of private generating plant to the Electricity Boards' distribution systems 1985
G61	Handling of electrostatic sensitive devices 1985
G62	Operational safety when working in the vicinity of live high voltage overhead lines 1985
G64	Safety in cableways 1986
G66	Guidance on the specification, use and maintenance of portable lifting equipment in Area Boards 1986
G67	Guidance on safety in conductor stringing on overhead lines 1987
G68	The fault performance of non-auto-reclosing oil circuit-breakers intended for 11kV (250MVA) underground distribution networks 1988
G69	Guidance on the safety aspects of work on sulphur hexaflouride filled distribution equipment up to 145kV
G70	Vegetation control near overhead lines 1989
G71	Purchase, storage, use, inspection and maintenance of insulating mats for electrical purposes up to 650V 1989
L9/2	Testing of wood poles prior to climbing or use as a support 1978
L13/1	Street lighting brackets fixed on joint user poles with the Post Office 1960
L15/4	Notes on use of PVC insulated hv conductors (up to 11kV) as protection for Post Office open wires or aerial cable 1968
L32/1	Recommended procedure for erecting Area Board overhead lines over motorways 1975
L36	Metric profile scales 1971
L37	Overhead transmission steel tower line construction: code of behaviour 1971

L38 Protective greasing of PVC covered copper and bare and PVC covered aluminium based overhead line conductors
1981

L41 Use of home grown wood poles for overhead line supports
1987

M1/2 Standardisation of equipment required for kW maximum demand metering on consumer's premises
1956

M3 Meter voltage markings
1951

M7/1 Certification of meters other than kWh meters
1956

M10/3 Serial numbering of meters
1988

M11/1 Standardisation of accuracy requirements for new meters
1970

M12/1 Standard wiring polyphase metering equipments
1957

M15/4 Fused flexible leads for use with portable voltage measuring instruments at voltages up to 600 volts ac/dc
1981

M25/1 Improving the security of meters and associated service equipment
1988

M26/2 Standard purchasing requirements for single phase, one rate and two rate house service credit meters
1988

M28 Consumers' attachments to Boards' meters
1988

M29 Facilities offered to customers from Area Board metering equipment
1989

P1/3 275/33kV, 132/33kV and 132/11kV supply point transformers
1969

P2/5 Security of supply
1978

P3/1 Load reduction by voltage adjustment
1977

P4 Power factor improvement
1955

P5/5 Design of low voltage underground networks for new housing estates
1987

P10 Voltage control at bulk supply points
1965

P11/1 Compact 132/33kV substations
1969

P14 Preferred switchgear ratings
1971

P15 Transformer loading guide – a guide to the loading of double-wound transformers having nominal ratings of 120MVA and below. Supplying systems at 66kV and below from the supergrid and 132kV system
1971

P16 EHV or hv supplies to induction furnaces
1975

P17 Current rating guide for distribution cables
Part 1: 11kV cables

Part 2: 33kV cables
1976
Amendment 1, 1978

P18 Complexity of 132kV circuits
1978

P19 Procedure for the planning and design of 132kV systems
1979

P20/1 Earthing policy in relation to the customer's installations
1989

P23 Consumers' earth fault protection on single phase supplies up to 100A for compliance with the 15th edition of the IEE Wiring Regulations for Electrical Installations

P24 AC traction supplies to British Rail
1984
Addendum, 1990

P25 The short-circuit characteristics of Electricity Boards' low voltage distribution networks and the co-ordination of overcurrent protective devices on 240V single phase supplies up to 100A
1984

P26 The estimation of the maximum prospective short-circuit current for three phase 415V supplies
1985

P27 Current rating guide for high voltage overhead lines operating in the UK distribution system
1986

P28 Planning limits for voltage fluctuations caused by industrial, commercial and domestic equipment in the United Kingdom
1989

P29 Planning limits for voltage unbalance in the United Kingdom
1990

P01 Post Office Memorandum A80(e): Protection of Post Office lines from contact with low or medium voltage power lines
1975

P02 Post Office Memorandum A231(b): Protection of Post Office lines from high voltage power lines
1975

P04/1 Services to British Telecom Public Telephone Housings
1988

S2/4 Limitation of fire risk in substations at 132kV and below and in enclosed cableways
1976

S3/1 Metering current transformers for use in switchgear
1978

S5/1 Earthing installations in substations
1966
Amendment 1, 1969
Amendment 2, 1970
Addendum 1969

S15 Standard schematic diagrams
1956

Part 1: Schematic diagrams

Part 2: Alarm schemes

Part 3: Basic diagrams for voltage and current transformer secondary circuits
Amendment 1, 1970
Amendment 2, 1988

Part 4: Circuit diagrams for 6.6/11kV standard distribution switchgear

S17 Guide for light current control, indication and alarm equipment
1960
Amendment 1, 1964

S26 Aluminium busbar installations for use in 33kV outdoor substations
1968

S30 Uprating 132kV 3500MVA substations to 5000MVA
1973

S31 Increase in single-phase earth fault rating at 132kV 3500MVA substations
1973

S33 Switchgear current ratings at reduced ambient temperature (excluding fuses)
1982

S34 A guide for assessing the rise of earth potential at substation sites
1986
Amendment 1, 1986
Amendment 2, 1988

S35 Remedial measures for 11kV outdoor groundmounted switchgear
1987

S36 Procedure to identify and record 'hot' substations
1988

EB/BT.1 Conditions for British Telecom and Electricity Board joint use of poles
1982

TELE.1 The Electricity Boards' practices for the design, installation, operation and maintenance of telecommunication systems
1983

T1 System phasing
1949

T3 Automatic voltage control at grid supply points

T8/6 The cost of losses for transformers used on distribution systems
1987

ACE1 Power factor improvement
1953
Section: Recommendations

ACE3 Use of series capacitors in power systems
1956
Addendum 1965
Section 3

ACE11 Standardisation of auto-reclosing facilities on 11kV ground-mounted metalclad distribution switchgear
1966
Addendum 1971
Sections 3, 4, Addendum

ACE14 Guide and report on high voltage live line working on overhead lines carried out on steel, wood or concrete supports up to and including 132kV
1974
Revision 2 (1983) to Section 2
All Sections

ACE21 Guide and report on medium and low voltage live line working
1969
All Sections

ACE23 Guide to the provision of electronic telecontrol equipment for Area Electricity Boards
1969
All Sections

ACE24 Standardisation of coding for ripple control signals
1969
All Sections

ACE30 Recommended procedure for the selection of power line carrier frequencies
1972
All Sections

ACE44	Pulling-in aluminium-sheathed cable Part 1: 11kV belted corrugated type 1975 Section 5 Part 2: 11kV screened corrugated type, 11kV belted smooth-sided type, consac cable 1978 Section 6
ACE46	The maintenance of electrical plant and equipment up to and including 132kV 1981 All Sections
ACE51	The application of ER P2/5. Security of Supply 1979
ACE54	Auto-reclosing schemes for 11kV distribution networks 1977 Sections 7, 11, Appendices
ACE55	Lightning protection for networks up to 132kV 1977 All Sections
ACE57	Guide to mechanical aids used for cable laying and overhead line erection 1977 All Sections
ACE59	132kV delayed auto-reclosing schemes 1977 All Sections
ACE67	Reliability investment in radial hv distribution systems with overhead lines 1979
ACE68	Code of practice on the guarding of roadworks 1979 All Sections
ACE80	Guide to the maintenance of electrical plant up to and including 132kV 1981 All Sections
ACE105	Report on the design of low voltage underground networks for new housing 1986 All Sections
ET106	Remedial measures for outdoor ground-mounted switchgear 1987 All Sections
ET110	Test procedures to determine the capability of cable screens to withstand fault currents from internal failures 1989 All Sections
ET112	Harmonic impedance of supply systems 1988 Section 7
ET113	Notes of guidance for the protection of private generating sets up to 5MW for operation in parallel with Electricity Boards' distribution networks. 1989

PART II

ARRANGEMENTS APPROVED

G28/3	National Equipment Defect Reporting Scheme – notes of guidance 1989
G43/1	Instructions for reporting to the National Fault and Interruption Reporting Scheme 1984

P22 Code of practice procedure for advising customers on the unsuitability of water pipes for use as earth electrodes
1981

P23 Consumers' earth fault protection on single phase supplies up to 100A for compliance with the 15th edition of the IEE Wiring Regulations for Electrical Installations

P25 The short-circuit characteristics of Electricity Boards' low voltage distribution networks and the co-ordination of overcurrent protective devices on 240V single phase supplies up to 100A
1984

P26 The estimation of the maximum prospective short-circuit current for three-phase 415V supplies

R1/3 Immediate Notification of Dangerous and Potentially Dangerous Incidents and Changes in Operational Policy
1988

EXPLANATORY NOTE

(This note is not part of the Order)

This Order approves standards of dimension, design, quality or performance of goods and manufacturing processes and of performance in the provision of services, and arrangements as to the provision of information or advice, all of which have been adopted by Electricity Association Services Limited. The effect of the Order is that, for the purpose of determining whether an agreement is one to which the Restrictive Trade Practices Act 1976 applies, no account is taken of any term in the agreement by which the parties or any of them agree to comply with, or to apply, the standards and arrangements so approved.

The standards and arrangements (other than those which are confidential) may be inspected at the premises of Electricity Association Services Limited, 30 Millbank, London SW1 P4RD.

£3.10 net

ISBN 0 11 003888 6

Printed in the United Kingdom for HMSO

833 WO905 C14 5/90 452 7102 O/N 88174