

DESIGNS DEPARTMENT TECHNICAL MEMORANDA

Subjects

Technical memoranda are written and issued by Designs Department to fulfil one of the following major needs

- a. To describe the functioning and maintenance of a piece of equipment designed in the department, and thus act as a provisional handbook for the equipment.
- b. To give a factual report on commercial components or apparatus which may be of interest to the BBC generally, or describe modifications to commercial equipment.
- c. To describe the performance of communication circuits.
- d. To describe-system tests carried out with independent observers.

There is practically no limit to the range of subjects which can be covered by a technical memorandum. Alternatively b, e, and d above may be the subjects of test reports.

Reference Numbers.

Each technical memorandum is given, a three-part reference number by the originating section at the time it is produced. The first number is that of the originating section of the department itself. The second is an identity number which is given an consecutive order by the issuing section. The third number is the last two figures of the year of issue in brackets. Thus a memorandum, which was the seventy-fifth to be issued by section 7, and was produced in 1964 would carry the reference number 7.75(64). If no title appears against a reference number this indicates that a technical memorandum is in course of preparation.

Circulation.

The head of the section concerned decides the circulation list, and technical memoranda are thus not for general issue. However copies can usually be obtained of those which describe apparatus designed in the Department and which thus act as a provisional handbook. The Departmental Library receives a copy of every technical memorandum issued.

Prior to 1964 all technical memoranda were published by Designs Department using a dyeline process and were based on foolscap size. In 1964 Technical Publications Section undertook the printing using offset litho. The published size was quarto, and was changed to A4 in May 1965. Those so printed have a letter T after the reference number and repeat copies should be ordered from Technical Publications Section.

Restricted (R)

Where a letter R is printed after the reference number, copies can only be obtained on the authority of the issuing section head.

Superseded (S)

Many technical memoranda are subsequently superseded by a technical instruction and the letter S after the reference number indicates that a technical publication is now in existence. This can be obtained from Technical Publication Section.

Com(T)E.

Technical memoranda published on behalf of the colour television ad hoc group of the E.B.U. tactical committees carry the Com(T)E reference number after the title,

KJA/BC
4.5.65.

DESIGNS DEPARTMENT TECHNICAL MEMORANDA

SECTION 1

1951

- 1.1 Russian Magnetic Tape Recorder.
- 1.2 Swiss Mobile Magnetic Tape Recorders.
- 1.3 Stancil-Hoffman, "Minitape" Recorder, Model MT/3
Modifications to Provide Replay Facilities.

1953

- 1.4 The Measurement of Tape Speed.
- 1.5 The Treatment of Magnetic Print in Tape Recordings.

1954

- 1.6 Bay Mounting of E.M.I. Tape Recorders.

1955

- 1.7 Modification of Ampex Model 350 Tape Recorder for
C.C.I.R. Characteristic at 15 ins/sec.
- 1.8 Operation of an Ampex Recorder with a Martindale,
- 1.9 Operating Notes for Fine-Groove Reproducing Desk DRD/5
- 1.10 Maintenance of the HPG39-2 Pickup.
- 1.11 Installation and Maintenance Notes for Fine-Groove Reproducing Desk, DRD/5.
- 1.12 C.C.I.R. and I.E.C. Recording Standards from the BBC Point of View.
- 1.13 Recording Equipment for the Transpolar Journey of the British Trans-Antarctic Expedition.
- 1.14 Operational Requirements for a Recorder in the Antarctic.

1956

- 1.15 Adjustment of Disk Reproducing Desk, DRD/5 to prevent Disk
rotating when it should be stationary
- 1.16 The Cost of Disk Reproducing Facilities.

1957

- 1.17 Loss of Programme on DRD/5 Disk Reproducing Desks due to Faulty top cut Switches.
- 1.18 Frequency Correction of Foreign Programme Magnetic Tapes.
- 1.19 Not written.

1958

- 1.20 S.R.Elec. Maintenance Magnetic Tape Recorder type RD4/501.
- 1.21 S.R. Improvements to Midget Tape Recorder "LL2, RD4/1, RD4/501.

1959

- 1.22 S.R.Elec. Maintenance Magnetic Tape Recorder RD4/1.
- 1.23 Conversion of E.M.I. Type L2/B Magnetic Tape Recorder to
BBC Types RD4/1 and RD4/501.
- 1.24 Tape Recording at 7½" per second for service use.
- 1.25 Magnetic tape recorders for transmission service.

DESIGNS DEPARTMENT TECHNICAL MEMORANDA

SECTION 1

1960

1.26 Alternative Head Dimensions for Sound Recording on 16mm Magnetic Film.

1961

1.27 Ampex VR100B

1.28 Ampex VR1000B, reduce hum on Sound Channel.

1.29 Ampex VR1000B, Partial Erasure or, reply.

1.30 Ampex VR1000 (Models B & C) to give a 2nd Sound Channel

1.31

1962

1.32 VR1000 -Simplified Modifications to second sound channel (Models B & C).

1.33 Automatic Tape Stop for Philips Magnetic Recorder.

1963

1.34 Handbook for Bulk Eraser Type UN1/18 for Magnetic Tape & Film

1.35 Tape Sequence Control and Counter Description and Operating Instructions

1.36 Adaptation of Philips EL3566 Recorder for Tape Sequence Control and Connector Unit

1964

1.37 R.C.A. TR-22 T.V. Tape Recorder. Modifications to improve the Signal-to-Noise ratio of the Main Audio Track and to give a Second Audio Channel from the Cue Track

1.38 T Synchronised Motor control system for Arriflex 16 mm Camera EP4/1.

1966

1.40 T Telecine Sepmag Relay and Metering Unit. UN1/58.

1.41 T Telecine Commag Relay and Metering Units UN1/59,

1.42 T Telecine Commag and Sepmag Recording Control Panel. PA6/48

1.43 T Power Supplier. PS1/6.

1.44

1.45

1969

1.46 T The Format of Recording Cassettes.

1.47 Unit, Control, Remote. UN3/24.

1970

1.48 T Oscillator, Variable Frequency (15-90 MHz). OS3/5.

1.49 T Amplifier. Power. AX1/37,

1.50 T Power Supplier, Variable Frequency PS1/27.

1.51 T Reproducer, Disk. RP2/6.

1.52 T Distribution Board. AT2/10

1.53 T Amplifier Reproducing Pickup. AM16/8

1.54 T Amplifier, Line and P.F.L. AM1/27

1.55 T Amplifier, Filter. AM1/28

1.56 T Power Supplier. Stabilised. PS2/72

DESIGNS DEPARTMENT TECHNICAL MEMORANDA

SECTION 1

1970 Contd.

- 1.57 T A Proposed New 16, SEPDUMAG Compatible Recording Standard. Restricted Issue.
- 1.58 Reproducer. Disk. RP2/6A.
- 1.59 Power Supplier, Variable Frequency. PS1/35.
- 1.60 T Amplifier, Recording, Tape. AM15/7.
- 1.61 T Oscillator, 100 kHz. OS2/37.
- 1.62 T Amplifier, Power, Tuned 100 kHz, AM1/31
- 1.63 T Amplifier, Reproducing, Tape. AM16/9.
- 1.64 T Amplifier. Line. AM7/7.
- 1.65
- 1.66 T Some aspects of a Picture-Printing or Facsimile machine. Restricted Issue.
- 1.67 T Recording Characteristics for 16mm Film. Restricted Issue.
- 1.68 T Echo effects Unit. UN4/1.
- 1.69 T Amplifier Input, AM1/41. First used on Echo Effects Unit UN4/1 .
- 1.70 T Amplifier,. Output, AM1/42. First used on Echo Effects Unit U 4/1.
- 1 .71
- 1.72 T Recorder Magnetic. RD4/4.

1971

- 1.73 T Unit, Iris Control. UN3/29.
- 1.74
- 1.75 T Proposed 16mm. SEPDUMAG System Head Measurements. Restricted Issue.
- 1.76

1972

- 1.77 T Conversion Kit for Obsolescent S T & C Type 60-LAA Relay.
- 1.78 Some notes on Chassis Design with particular reference to the Imhof-Bedco CDX System.
- 1.79 T Monophonic Compatibility of Stereophonic Cassette Recordings.

- 1.89 T Desirable Features for Headphones. Restricted Issue.

DESIGNS DEPARTMENT TECHNICAL MEMORANDA

SECTION 1

1972

- 1.100 T Coded Source Identification Equipment, Wimbledon July 1972. (Restricted Issue).
- 1.101 T The Design and Coding of Vinkor Inductors,
- 1.102 T Reproducer, Disk. RP2/8.
- 1.103 T Amplifier, Recording, Magnetic. AM15/503P. Handbook.
- 1.104 T Amplifier, Monitoring, Headphone. AM10/6. Handbook.
- 1.105 T Source Identification Unit. UN1/684.
- 1.106
- 1.107 T Time Insertion Unit. UNI /686.

DESIGNS DEPARTMENT TECHNICAL MEMORANDA

SECTION 2

1952

- 2.1 Line Break Monitor LBM/1
- 2.2 Remote control System for Towyn

1953

- 2.3 Mains Unit MU/49 (For Telegraph Equipment)
- 2.4 Line Performance Recorder LPR/1
- 2.5 Three Channel Carrier System: Use of V.F. Channel at Intermediate Stations.
- 2.6 Selective Amplifier Detector SAD/1.
- 2.7 Nottingham Communications Scheme.
- 2.8 Equaliser, Attenuator and Filter Panel EAF/1 and PEAF/1.
- 2.9 Remote Control of Cromer.
- 2.10 S.B. Line Re-organisation in North of England and South of Scotland.
- 2.11 Not Written.
- 2.12 Not Written.
- 2.13 Not Written.

1954

- 2.14 Remote Control System: Group 'H' Transmitters, Parallel Working.
- 2.15 Filter FHP/3A. Harmonic Routine Tester.
- 2.16 Remote Control System as used at Preston (and elsewhere).
- 2.17 Modifications to TCRB/2A and TIRB/2A for use at Worcester and Weymouth.
- 2.18 Remote Switching of S.B. Lines Birmingham, Daventry System.
- 2.19 Remote Control Systems as used at Wrexham, Dundee and Exeter: Method of Equalising Music Lines and Adjustment of the Level of 8000 c/s Tone.
- 2.20 F.M. Coverage Scheme: Influence on S.B. System.
- 2.21 Telegraph and Switchboard. Power Supplies MU/46 and MU/52 and Switching Panel SP/19.
- 2.22 Remote Switching of S.B. Lines: Clevedon-Bristol System.
- 2.23 Remote Switching of S.B. Lines: Lisnagarvey-Belfast-Londonderry System.
- 2.24 Shared Circuit System: DEI, WN, BM, LO.
- 2.25 Experimental Circuit for Protection of Diesel Engines.
- 2.26 F.M. Coverage Scheme: Proposals for Re-organisations of S.B. Lines in the Carlisle Area, and for operating Carlisle as a Staffed Centre,
- 2.27 Remote Control. System for Worcester and Weymouth.

DESIGNS DEPARTMENT TECHNICAL MEMORANDA

SECTION 2

1954 contd.

- 2.28 Suggestions for the Re-organisation of Control Circuits between North and South Wales,
- 2.29 Remote Switching of S.B. Lines Bristol-Droitwich System.
- 2.30 Automatic Gain Tone Converter AGTC/1.

1955

- 2.31 Automatic Gain Tone Converter ACTC/2 CANCELLED.
- 2.32 Voice Switched Loudspeaker System Preliminary Description.
- 2.33 Addition of Fourth Channel on Existing BBC (1+2) Carrier Systems.
- 2.34 FLPD/2 and FLPD/2A.
- 2.35 Handbook for FLPD/2 and FLPD/2A.
- 2-36 Remote Switching of S.B. Lines; Edinburgh-Kirk O'Shotts System.
- 2.37 Diesel Protective Panel DPP/1 Circuit Description.
- 2.38 Remote Switching of S.B. Lines Droitwich-Birmingham System,
- 2.39 Performance of Topping Up Equaliser EV10.
- 2.40 Resistors for Attenuator Pads.
- 2.41 Voice Switched Loudspeaker System.
- 2.42 Impedance Compensation of Repeating Coils.
- 2.43 Improvements to BBC Communication Scheme.

1956

- 2.44 Application of Ferroxcube Inductors for Frequencies below 30 Kc/s
- 2.45 Routine Line Tester, RLT/1 and RLT/1P.
- 2.46 Towyn Remote Control Equipment. Modifications necessitated by advent of Blaen Plwy F.M. Transmitter.
- 2.47 Local and Remote Switching of Light Transmitters to R.B.R. - Redmoss, Meldrum and Burghead.
- 2.48 Converter, Telegraph (Electronic) C.O.7/1.

1957

- 2.49 Proposed Plan for Music Line to Sandale
(Sandale Transmitting Station: Music and Control Line)
- 2.50 Not used.
- 2.51 Revised Proposals; Sandale Transmitting Station,
- 2.52 Remote switching of FM RBR Receiver Outputs. Penmon-Bangor System.
- 2.53 Southampton-Bartley Remote Control System.
- 2.54 Transmission of Video & Sound Signals in a Common Spectrum.
- 2.55 O.B. Sound and Communication Carrier System - OT2A.
- 2.56 Modification to Cromer Remote Control System.

DESIGNS DEPARTMENT TECHNICAL MEMORANDA

SECTION 2

1957 contd.

2-57 Remote-to Switching of Chains during Unstaffed Hours.
Type 1

1958

- 2.58 The Remote Switching of V.H.F. Transmitters during Unstaffed Hours using Remote Switching System Type 2.
- 2.259 The Remote Switching of S.B. Chains during Unstaffed Hours using Remote Switching System Type 2.
- 2.60 The Remote Switching of S.B. Chains and V.H.F. Transmitters during Unstaffed Hours using Remote Switching System Type 2.
- 2.61 Douglas-Snaefell Remote Control System; Home Service: Receiver Switching.
- 2.62 Sandale-Carlisle Remote Switching System.
- 2.63 Vision & Sound Feed Switching between Bristol (and Cardiff) and North Hessory Tor and Rowridge.
- 2.64 Remote Switching of Penmon-Llanddona Home Service Line for Transmission of Area Broadcasts.
- 2.65 Control Panel CPR 13D at Penmon on the Penman-Towyn remote Control System.
- 2.66 The Remote Switching of S.B. Chains between Moorside Edge and Manchester using Remote Switching System Type 3.
- 2.67 Power Failure Arrangements at Blaen Plwy - Drawings only.
- 2.68 RLP/5C at TOWYN
- 2.69 Holding and Sequential Monitoring Panel at Towyn.
- 2.70 Stabilised Power Suppliers.
- 2.71 Power Suppliers.
- 2.72 Remote Control System for Towyn.
- 2.73 Remote Switching System for Aberdeen - Meldrum Area Broadcasting. Incorporating Emergency Facilities for Aberdeen - Rosemarke.
- 2.74 PENMON-BANGOR-COLWYN BAY Remote Control System.
- 2.75 Vision and Sound Switching Newcastle and Pontop Pike.
- 2.76 Greenwich Time Signal System.

1959

- 2.77 Remote Switching between Westerglen & Glasgow.
- 2.78 Peterborough proposed Music & Control lines for VHF and T.V. Sound Services.
- 2.79 Remote Control System for Wrexham and Llangollen.
- 2.80 Remote Switching System: Dover-Tolsford Hill.
- 2.81 Four-Wire Terminating and Hinging Unit UN10/4.
- 2.82 Notes on "Non-Linearity Testing Equipment for Broadcast Transmission Links" by E.A. Pavel & M. Bildlingmaier
- 2.83 Line Amplifiers AM7/1P.

1959 contd.

- 2.84 Stabilised Power Supply 12V/0-500 mA Transistor Unit.
- 2.85 Remote Switching of Television Services-between Norwich and Tacolneston.
- 2.86 Llangollen: Lightning Protection Measures taken on Music and Exchange Lines.
- 2.87 Remote Switching of Television Services between Norwich and Peterborough.
- 2.88 Transistor/Relay Switching Units.

1960

- 2.89 Remote Switching of Television Receivers and U.H.F. Transmitters: Douglas-Snaefell.
- 2.90 Holme Moss: Lightning Protection Measures taken on Music, Control and Exchange Lines.
- 2.91 Compatible Stereophonic Transmission over SB System.
- 2.92 Remote Switching System Employing Voice Frequency Tones as used between Glasgow Kirk o'Shotts.
- 2.93 Filter FL4/6 for use on Carrier Phantom Music Circuits,
- 2.94. Auxiliary Test Circuit for use with Venner Time and Frequency Measuring Equipment TSA1035/9.
- 2.95S Automatic Routine Line Testing Equipment TE1/1 & TE1/IA.
- 2.96 Llandona: Lightning Protection Measures taken on Music, Control and Exchange Lines.
- 2.97 Unearthed Power Supplier Unstabilised -PS3/17, UN9/4, UN9/5.

1961

- 2.98 Remote Switching of Vision & Sound Services: Plymouth North Hessary Tor System.
- 2.99 Remote Switching of Vision & Sound Services: Southampton Rowridge System.
- 2.100 Proposed Feed of VHF Services at Londonderry - Rearrangement of Feeds to Londonderry (AM) Transmitter.
- 2.101 Londonderry Television Station: Lightning Protection Measures on Music, Control & Exchange Lines.
- 2.102 Alarm Panel: UN1/16.
- 2.103 Proposed VHF Programme Feeds for Transmitters in The Great Glen.
- 2.104 Code Ringing Panel: PA19/1.
- 2.105 Stagshaw H.S. Switching System.
- 2.106 Ringing Facilities on PS/SC 12113.
- 2.107 Four-Wire Term. for use on small Stations.
- 2.108 Wrexham Remote Control System. Schedule of Changes Required at FN & WX due to Area Broadcasting from LLG.
- 2.109 Split Band Carrier Equipment, Type OTI/3. .

1961 contd.

- 2.110 V.F. Ringing Equipment as used at Daventry.
- 2.111 Fixed Frequency Oscillators 0S2/10 with Automatic Changeover by Tone Detector UN-1/9.
- 2.112 Not used.
- 2.113 Method of Line-up on GS-.KOS V.F. Remote Switching System.

1962

- 2.114 Meldrum: Lightning Protection Measures taken on Control, Music and Exchange Lines.
- 2.115 Remote Switching of Vision Services between-Southampton-Rowridge: Band I Transmitter and London Contributions.
- 2.116 Requirements on ELREMCO etc.
- 2.117 400 c/s Band Pass Filter (Mr M.B. Money, P.I.D.).
- 2.118 Phase Characteristics of Music Lines for Stereophonic Transmissions.
- 2.119 Cancelled
- 2.120 Cancelled
- 2.121 Cancelled
- 2.122 Remote Switching of Rowridge and North Hessary Tor from Plymouth
- 2.123 Cancelled.
- 2.124 Cancelled
- 2.125 Cancelled
- 2.126 Cancelled
- 2.127 Cancelled
- 2.128 S UN3/4 and UN3/5 for the Remote Control of E14T 140 Reverberation Plates.
- 2.129 Experimental Voice-Frequency Transmitter Switching Equipment for Tacolneston Third Programme Transmitter.
- 2.130 Remote On-Off Switching of Transmitters Detector Unit.
- 2.131 Experimental Method of Remote Switching of Storno Transmitter/Receiver,
- 2.132 Stereophonic Transmission over the SB System..

1963

- 2.133 Distribution of Home Service in Northern Ireland.
- 2.134 Remote Switching System Employing Voice Frequency Tones as used between Bristol and London.
- 2.135 Experimental Looped Circuit Birmingham-London-Birmingham Equipped with P0 Amps 135/1A.
- 2.136 Stereophonic Transmission. Measurements on Lines, London-Sutton Coldfield.
- 2.137 Extension of Light and Third Programme Hours: Provision of Reserve Feeds for the Third Programme during Unstaffed Periods.

1963 contd.

- 2.138 Proposed distribution of sound for the second television service
- 2.139 Automatic switching unit PA1/35
- 2.140 Remote switching system between Fort William and Ballachulish
- 2.141S Automatic routine line testing equipment TE1/1 and TE1/4 summarised operating instructions
- 2.142S Automatic routine line testing equipment TE1/1 and TE1/4 line-up instructions

1964

- 2.143 Constant volume speech amplifier AM1/6
- 2.144 Comparative measurement of total harmonic distortion on SB music circuits
- 2.145 Bristol-London V.F. Switching System :method of line-up
- 2.146 Report on conference on
“The impact of users’ needs on the design of data processing systems”
- 2.147 Tests on PW 12312. A music – in band circuit from Glasgow to Belfast
- 2.148T Equalisation of O.B. lines using transistorised equipment standards
- 2.149T Pre-emphasis on S.B. lines C.C.I.T.T. Recommendations

1965

- 2.150 Datofonic Economy Mark III. As modified for the Oxford transmitter
- 2.151 Tests on London-Birmingham programme-corner circuits PC1 and PC2 looped in Birmingham
- 2.152 Remote switching system between Dublin and Mohercrome
- 2.153 remote switching of three transmitter receivers used in conjunction with the Radio Car
- 2.154
- 2.155 Manchester-Carlisle remote programme switching system.
tests on Manchester-Newcastle loop on PBX Post Office carrier circuit PW 12065

1966

- 2.156 Remote switching of Meldrum S.H.S. transmitter during U.G.H.
- 2.157 German standard specification for measurement of non-linear distortion. (in German)
- 2.158 Voice frequency ringer
- 2.159 Noise measurements on RBR links: Wrotham (Home Service transmitter) to Western House.
- 2.160T Remote switching of Bartley transmitter from RBR to line during periods of Area Broadcasting from Rowridge Transmitter.

1967

- 2.161 Manchester/Carlisle remote switching and supervisory system. Serck/BBC No.1

- 2.162 Remote Switching of Bartley Transmitter from RBR to line during periods of Area Broadcasting from Rowridge Transmitter.
- 2.163 Automatic Fault reporter PA2M/7
- 2.164 Modifications to TE1/1.
- 2.165 Remote Switching system Washford - Cardiff
- 2.166 Remote switching of two transmitters/receivers used in conjunction with the Radio Car
- 2.167 Two-Tone Signalling System from Bush House to Overseas Relay Stations.

1968

- 2.168 Passive Network Analysis by the Computer Program. "Nann".
- 2.169 The Code Indicator Section of the PA2M/7
- 2.170 Switching System Leeds.
- 2.171 Dolby Componder
- 2.172 AM1/6 & AM1/6A (Bay Mounted) or AM1/6AP (Portable) Conversion
- 2.173 PA1M /60 & PA1M/60P Microphone Amplifier & mixer Panel for use with the AM1/6A use
- 2.174
- 2.175 Tests on Carrier Programme Circuits London-Bristol-Cardiff and return
- 2.176 Manchester-Newcastle Indicating System
- 2.177 V. F. Ringing Receiver. UN10/13.
- 2.178 Four Track Magnetic Recorder. RD4M/5
- 2.179

1969

- 2.180 Equipment carrier terminal EP2/1.
- 2.181 Sound-in-Vision Provisional Waveform Spec.
- 2.182
- 2.183 Two tone signaling system for use by Voice of America
- 2.184 Equipment, Carrier, Split Band.
- 2.185 The Sound in Syncs System.
- 2.186 Sound in Syncs Waveform.
- 2.187
- 2.188
- 2.189 EQ3/25 OB Line equaliser for local radio stations

- 2.190T Automatic Fault Reporter. PA2M/7Aa
- 2.191 Sync. Separator Unit UN16/514
- 2.192 Video Processing Amplifier AM1/578
- 2.193 Stereo Polarity Tester UN20/10 + Test Generator
- 2.194 Sound in Syncs Separator Unit. UN16/515
- 2.195T Sound in Syncs Pilot Tone Generator GE1/546
- 2.196T Sound in Syncs Band Stop & Pre-Emphasis Filter. FL1/32.
- 2.197T Sound in Syncs Audio Limiter. AM6/9,
- 2.198T Sound in Syncs Audio Input Unit FL1/36
- 2.199T Sound in Syncs Timing Oscillator, UN23/521.
- 2.200 Sound in Syncs. Gating Unit UN23/522
- 2.201T Sound in Syncs Tiring Gate Unit UN23/523
- 2.202T Sound in Syncs Audio Filter FL1/31
- 2.203T Sound in Syncs Error detection Unit UN20/527
- 2.204T Sound in Syncs Monitor MN1/7
- 2.205T Sound in Syncs Audio Expander Control Unit.
- 2.206T Sound in Syncs Audio Expander Amplifier AM1/38
- 2.207T Sound in Syncs Shift Register Unit UN23/523
- 2.208T Sound-in-Syncs Counter and Clock Unit. UN23/528
- 2.209T Sound-in-Syncs. Sample and Hold Unit. UM23/530.
- 2.210T Sound-in-Syncs. Sound Pulse Separator Unit. UN16/517.
- 2.211T Sound in Syncs Shift Register Unit UN23/524
- 2.212T Sound-in Syncs. Staticiser Unit. UN23/525.
- 2.213T Sound-in Syncs counter and clock unit UN23/526
- 2.214T Sound in Syncs Sample and Hold Unit. UN23/531.
- 2.215
- 2.216
- 2.217
- 2.218 T Sound in Syncs. Coder. CD2M/505

- 2.219 Sound in Syncs. Decoder. CD3M/504.
- 2.220
- 2.221 Automatic Reporter Alarm Panel Power Supplies. PS2/105A, PS2/105B, PS1/33.
- 2.222 Sound-in-Syncs. Regenerator. UN23/529.
- 2.223
- 2.224
- 2.225
- 2.226
- 2.227

1971

- 2.228 A Guide to Programming the Code Indicator Section (CIS) used on PA2M/7A and PA2M/9
- 2.229
- 2.230T Low-Pass Filter, 7.1 kHz, FL4/30.
- 2.231T Automatic Fault Reporter. PA2M/9.
- 2.232T Operational Handbook for the BBC. Sound in Syncs System.

1971

2.401T Advance Description of the TC to BH. Sound and Vision Remote Control Switching Apparatus to CDR 94.

SECTION 3

1952

- 3.1 Basic Circuits For Simple Sequential Monitoring.
- 3.2 Not Written.

1953

- 3.3. The Operation of Broadcasting Studios.
- 3.4 Repeating Coils.
- 3.5 Automatic G.T.S. Equipment for London.

1954

- 3.6 Type B. Studio Equipment First Model Description and Interim Operating Instructions.
- 3.7 Scheme B: Interim Description, Regional Continuity, Master Switching, and Control Room Equipment.
- 3.8 Gunfire Effects Generator GEG/1.

1955

- 3.9 Amplifier Test Panel ATP/1.
- 3.10 Wetting of Uniselector Switches.
- 3.11 Testing of Amplifiers for BBC Use.

1956

- 3,12 Test Report on Pamphonic Amplifier Type 600 V.
- 3.13 Amplifier GPA/4A. Variation of Gain with Level at Low Frequencies.
- 3.14 A.C. Test Meter ATM/1.
- 3.15 Bush House Continuity Suites.
- 3.16 An Investigation into the Causes of Noise in Stud Type Faders.
- 3.17 Automatic Programme Switching Unit, Bush House.
- 3.18R Switching Surges and Beswick Anti-Surge Fuses.
- 3.19 Measurements on 'C' Cores under D.C. Polarised Conditions.
- 3.20 Indicator Screens for Display Panels using Lamp Indicators LI/1.
- 3.21 Manual and Circuit Operation of Control/Monitor Position as Used in Bush House Control Room.
- 3.22 Miscellaneous Switching Position (comprising M.S.P. Desk DK/4902, Main Indicator IW1/1 and Source and Route Switching Bays.
- 3.23 Not written.

1957

- 3.24 Manual and Circuit Operation of S.C.R.E's Desk DK3/1 (Bush House)
- 3.25 Manual and Circuit Operation of the Engineering Manual Exchange, Bush House,
- 3.26 Central Monitoring System.
- 3.27 Low Frequency Compression in P.O. Amplifier No.35.

1957 contd.

- 3.21 Transistor O.B. Amplifier AM/11/1.
- 3.29 Sound Apparatus Fault Records Review 1952-56.

1958

- 3.30 Covent Garden Studio Control Desk.
- 3.31 Programme Switching Equipment, Glasgow.
- 3.32 Remote Vision Switching - White City - B.H.

1960

- 3.33 Ldn. B.H. Ext. Control Room Auto/Manual Source Route Selection System.
- 3.34 Ldn. B.H. Ext. Engineering Telephone System.
- 3.35 Television Sound Switching - B.H. Ext.
- 3.36 Monitoring System (50 x 1, 150 x 1, 150 x 3) B.H. Ext.
- 3.37 Technical. Alarm System - B.H. Ext.
- 3.38 Main E.M.X. Position - B.H. Ext.
- 3.39 S.B. Position - B.H. Ext.
- 3.40 Control/Monitor Position - B.H. Ext.
- 3.41 T.O.M. and A.T.O.M. Control Positions - B.H. Ext.
- 3.42 O.B. Position - B.H. Ext.
- 3.43; T.V. Sound O.B. Position - B.H. Ext.
- 3.44 Control Position - B.H. Ext.
- 3.45 Despatch Position - B.H. Ext.
- 3.46 Continuity Suite - B.H. Ext.
- 3.47 Continuity Interchange Unit - B.H. Ext.
- 3.48 Mixer Suite, B.H. Ext. Part I and Part II
- 3.49 Clock Pulse Integrator - B.H. Ext.
- 3.50 Time Controlled Units - B.H. Ext.
- 3.51 Intercom. Circuits - B.H. Ext.
- 3.52 Skelton Automatic Programme Switching.
- 3.53 Rampisham. Automatic Programme Switching.
- 3.54 Daventry Automatic Programme Switching,
- 3.55 Peak Programme Meter, ME12/3

1961

- 3.56 GE1/2 Gunfire Effects Generator.
- 3.57 AM1/1 Response Selection Amplifier.
- 3.58 Monitor Remote Control (W. City - B.H.).

SECTION 3

1962

- 3.59 Long Cable runs with Transistor Amplifiers.
- 3.60S AM1/4 Response Selection Amplifier.
- 3.61S ME12/4 Peak Programme Meter.

1963

- 3.62 Integrated Sounds & T,V. Source Selection System Superseded by 3.82 (65)
- 3.63 Equipment Studio EP5/5 & EP5/5A Pt. I. and Pt.II.
- 3.64 B/H Ext. Control Room Aux. Source/Route Selection System
- 3.65 Intercom , M/C AMP. Performance Data
- 3.66 Regional Continuity Control Suite
- 3.67 Equipment, Studio, (Sound), EP5/6 and Equipment, Studio, (Sound), EP5/6A.
- 3.68 S 30 Watt Valve Amplifier AM8/6 (Loudspeaker 25 ohms) AM8/6A (Public Address 110 Volt Line).
- 3.69 S General Purpose Amplifiers AM5/4 and AM5/4A.

1964

- 3.70 Noise in Low-Level Audio Frequency Amplifiers & Associated Equipment.
- 3.71 Levels and Impedances in BBC Audio Frequency Practice.
- 3.72 Equipment EP10/12 Multi-control Position - Bush House
Part I - Operation.
Part II - Circuit Description.
- 3.73 New Switching Bays. (Superseded by 3.82 (65))
- 3.74 Sound Continuity Suite - Regional Studio Centres Pt, I. Operational Description.
- 3.75 Bush House Automatic G.T.S. Unit Operation and circuit description of the Bush House Automatic G.T.S. Unit,
- 3.76 Transistor O.B. Outfit OT2/3
- 3.77 Transistor Amplifier Tester TE2/1.
- 3.78 AM6/3 Peak Limiter
- 3.79 Equipment, Studio EP5/10.
- 3.80 Equipment Studio EP5/5B.

1965

- 3-81 Equipment, Studio, Sound, EP5/6B and Equipment, Studio, Mixer EP5/6C. Part I.
- 3.81 Equipment, Studio, Mixer, EP5/6C. Part III. Circuit Description
- 3.81 Equipment, Studio, Sound, EP5/6B; Part II. Circuit Description
- 3.82 Integrated Sound and Television Routing Systems
- 3.83 T The Specification of Peak Programme Meter Performance
- 3.84 Equipment, Master Clock EP1/4
- 3.85 Description and Operating Instructions. Response Selection Amplifier. AM1/9

SECTION 3

- 3 86 (Limited Issue). Proposed Modifications to BH Continuity for Stereo Service
- 3.87 T Sound Continuity Suite- Belfast. Part 1. Operational Description
- 3.88 Cancelled

1966

- 3.89 T Regional SB Switching: Part 1.- Operational Description
Part 2. Circuit Operation.
- 3.90 T Wiring of Nesting Boxes for Type C Modular Sound Control Desks

1967

- 3.91 Interim. Issue: The Type C Modular Sound Control System.
- 3.92 T Further Development of the Peak Limiter. AM6/3.
- 3.93 BH Extension Stereo Continuity Suite

1968

- 3.94 AM6/7 Limiting Amplifier
- 3.95 New Equipment for BBC source to Selection Systems

1969

- 3.96 Allocation of Connectors and tags of Equipment mounted on Chassis CH1/37
- 3.97 T Investigation of Performance of the O.B. Loudspeaker Assembly LS3M/3
- 3.98 T Tester, Desk Panel. TE1/13. (Including TE1A/2A-G Connector Cables)
- 3.99 T Internal Line Sending Amplifiers. AM7/8 and AM7/8A

1970

- 3.100 A Technical Review of Audio Faders in the BBC. Restricted.
- 3.101 T Cue Programme Distribution Amplifiers, AM4/8 & AM4/8A
- 3.102 T Metric sizes of Enamelled Winding Wire for Transformers and Chokes
- 3.103 T Panel, Desk, Source Selection PAS/ 306 and Indicator, Fault, Selection Hold Alarm IN5/3
- 3.104 Telephone System for Continuities and Studios
- 3.105
- 3.106 T Monitor Sequential, MN5M/2
- 3.107 List of Type D Sound Units.
- 3.108
- 3.109
- 3.110

1971

- 3.111 Continuity Interchange for Broadcasting House, London.
- 3.112 An Investigation of some integrated circuits for use as voltage controlled audio gain elements.

SECTION 3

1971

- 3.113 Metrication of Laminations for Transformers & Chokes.
- 3.114 A Pseudo-Stereophonic Spreader for Monophonic Programme Material.
- 3.115 T Prehear Detector Unit, UN20/22.
- 3.116 T Loudspeaker Amplifier. AM8/12

1972

- 3.117 T Measurement of Earth Leakage Currents.
- 3.118 T Automatic Crossfader. UN1/139.
- 3.119 T Earth Fault Indicator. IN5/4 and UN 11/8.
- 3.120 T Application of Multi-stage Switching System to Broadcasting.
- 3.121 T The London Broadcasting House Technical Intercommunication System.
- 3.122 T Earth Leakage Indicator. IN5/5
- 3.123 T Presenters' Intercom. Relay Unit, UN21/34.
- 3.124 T Amplifier, Intercom. Loudspeaker. AM5/8,
- 3.125 T Handbook for Desk, Studio, Presenters, DK4/16.
- 3.126 T Handbook for Oscillator, Switched Frequency. OS3/6 & OS3/7
- 3.127 T Handbook for Stereo Signal Converter. CO5/3.
- 3.128 T Handbook for Amplifier Headphone Monitoring, AM10/7.
- 3.129 T A Positive Temperature Coefficient Thermistor as a Loudspeaker Overload Protector,

1973

- 3.130 T Handbook on AM6/11 Stereophonic Limiting Amplifier.
- 3.131 T Amplifier, Monitoring, Headphone, AM10/9 and AM10/10.
- 3.132 T Amplifier, Intercom, Loudspeaker. AM5/11.
- 3.133 T Power Supplier Unstabilised. PS3/48.
- 3.135 Design Practice for DC suppliers.

SECTION 4

1957

- 4.1 (Parts A - J) Television Aerial Filter
- 4.2 Transistor Amplifier for Mains Failure Bridging Panel: Blaen Plwy

1963

- 4.3 Printed Wiring Boards and the Supply of Information to the Drawing Office.
- 4.4 Power Supplier PS3/21.

1964

- 4.5 Handbook for Television Mixer Type MX1/502
- 4.6 Vision Mixing Control Panel
- 4.7 Bay BA11/501.
- 4.8 Technical Information on the Cut/Fade Amplifier AM1/516
- 4.9 Technical Information on the Sync. Pulse Stabilising Amplifier Type AM18/511
- 4.10 Power Supplier PS2/16
- 4.12 Power Supplier PS2/17

1965

- 4.13 T Investigation of Inter-carrier Sound Buzz on BBC2 Transmission

1966

- 4.14 T Handbook for M.C.C.R/2 Television Mixer.
- 4.15 T Technical Information on the Producers Panel, Type PA6/507
- 4.16 T Stabilised Power Supplier. PS2/35.

1970

- 4.17 T The Preparation of Printed Board Masters
- 4.18 T P.C. Tape Master Photography in Designs Department
- 4.19
- 4.20
- 4.21
- 4.22 Test Equipment and Signal Sources available in Equipment Department Test Laboratory.

1971

- 4.23 Computer Generated Printed Board Artwork for the UN16/525. Restricted Issue.
- 4.24 Plated-Through Hole Printed Circuit Boards.

1972

- 4.25 Code/ Specification and Code/ Tech. Memos Cross References.

SECTION 5

1955

- 5.1 Operating Instruction No.15:
Automatic Monitor Minor Operating and Maintenance Instructions
- 5.2 Operating Instruction for the Line Automatic monitor
- 5.3 Operating instructions for the Radio Microphone, XFM/4.
- 5.4 Operating and Maintenance Instructions for the FM receiver HR/17
and Aerial Coupling Unit, ACU/5
- 5.5 Operating Instructions for the Automatic Monitor AMT/2 when used on FM transmitters
- 5.6 Not written

1956

- 5.7 Operating Instructions for RBR/2 and 2A-J
- 5.8 Aerial Coupling Unit, ACU/4.
- 5.9 Operating Instructions for LIM/6 and LIM/6A
- 5.10 Operating and Maintenance Instructions for the FM receiver HR/18
- 5.11 Operating Instructions for the TIP/2

1957

- 5.12 Third Network Transmission and Extension of Light Programme Hours
- 5.13 Television Satellite Studio Synchronisation
- 5.14 Vision I.F. Filters for T.V. Translators.

1958

- 5.15 Revised 20 k/cs Tone Monitoring.
- 5.16 Creteaway Down T.V. Translator

1959

- 5.17 V.H.F. Rebroadcasting Stage 11.
- 5.18 Remote Alarm Unit.
- 5.19 Voltage Compensator PA /11.

1960

- 5.20 Translator Mark II (Provisional)
Part A - Sheffield.
Part B - Daventry.
Part C - Hastings.
- 5.21 The Graphical Determination of Intermodulation Frequencies.

1961

- 5.22 Operating Instructions for Radio Microphone Test Set.
- 5.23 Operating Instructions for Failure Alarm PA2/3
- 5.24 Power Supplies for Translators

1962

- 5.25 Not written
- 5.26 Operating Instructions for VRFM Drive EP7/2
- 5.27 Operating Instructions for Experimental Band V Sound Drive as installed at Crystal Palace

1963

- 5.28
- 5.29 Operating Instructions for Radio Microphone TM3/1.
- 5.30
- 5.31 Notes on the Design of UHF Translators.
- 5.32 The Variable Inductance Frequency Modulator MD3/1
- 5.33 Procedure for using the MD3/1 Modulator Unit in the EP7/2 FM Drive Equipment

1964

- 5.34. Opening Instructions for the Radio Microphone Receiver RC4/1 and RC4/1A (Provisional)
- 5.35 T Practical Design of Band-Pass Coupled Tuned Circuits.
- 5.36
- 5.37 Operating Instructions for UHF FM sound drives as installed at Crystal Palace
- 5.38 Operating and Maintenance instructions for Television Translator Automatic Changeover Equipment at Dundee.

1965

- 5.39 Carmarthen VHF - TV Translator.

1966

- 5.40 T The H.K.L. Printed Circuit Drawing Process.

1967

- 5.41 T Television Automatic Monitor Transmitter MN2N/505
- 5.42 Cancelled, see 5.41.
- 5.43 Automatic Monitoring
- 5.44 T Operating Instructions for Sound Automatic Monitors Major. MN2M/1 & 1A.

1968

- 5.45 T The Stereophonic Decoder. CD3/1

1967

- 5.46 Modification of Mono FM Drives EP7/4 to Stereo Drives EP7/7
- 5.47 Operating Instructions for the MN2m/7 Automatic Monitor for sound programmes
- 5.48 Technical information. RC3M/4, RC5M/6, CD3/1.

1969

- 5.49T The PS2/67, PS2/74 and PS2/82 Series Power Supplier.
- 5.50T Design Details of the Sound Automatic Monitor Picture Unit
- 5.51 System Devices of the Sound Automatic Monitoring.
- 5.52 The Insertion Communication Equipment

SECTION 5

5.53

5.54

5.55

5.56

5.57

5.58 FM Drives Provisional Handbook, EP7L/8.

1970

5.59 T Handbook for RC1M/505 5" TV Receiver.

5.60 V.H.F. Modulator. MD1/508.

5.61

5.62 Trinitron Colour Television Receiver. Restricted Issue

5.63

5.64 Modification of GE6M/517

5.65

5.66

5.67

5.68

1971

5.69 Operation Handbook for UHF Television Active Deflector. EP7/512, A and B

5.70 T Generator. R.F. Test. GE4/544

5.71 T BA13/15 and BA13/16 VHF & FM Transmitters Provisional Handbook

5.72 Sony KV 1320UB Colour Receiver. Restricted Issue

5.73 UHF Receiver. UN1/642.

5.74 RC3/9 VHF Fixed Frequency Receiver.

5.75 T RC1/3 VHF Tuneable Receiver.

5.76 T Handbook for Minicam Command Transmitter. TM3M/4

5.77

5.78 T CD3/4 Stereo Decoder for Hacker "Sovereign" Receiver.

1973

5.79 T Stereo Performance of Band II F.M. Transposer BA13/10. Restricted Issue.

5.80

5.81

5.82 RC1/8 VHF Crystal-Controlled Receiver.

SECTION 6

1952

6.1 Television Test Generator, TV/TG/2.

1953

6.2 TV/STA/2A.

6.3 TV/STA/2 and TV/PSTA/1.

6.4 Proposals for the Production of Travelling Eye.

6.5 Sutton Coldfield Vision RBR Installations.

6.6 Television Receiver, TV/REC/3 (included in D.D.Spec. 6.1(53))

6.7 Wenvoe Rebroadcast Receiver Installation.

1954

6.8 Television Receiver, TV/ REC/3 Handbook.

6.9 Television Receiver, TV/REC/4.

1955

6.10

6.11 Information for the Guidance of Persons using Selenium Rectifiers for H.T. Applications.

1956

6.12 Handbook for the 12-18 Mc/s Carrier Systems between Broadcasting House and Crystal Palace.

6.13 Handbook for the 12-18 Mc/s Carrier Systems at Bristol, between BBC, Whiteladies Road, and G.P.O. Telephone Avenue.

6.14 Description and Operating Information: FC/3 Frequency Changer for Snaefell-Divis Band V Link.

1957

6.15 Theoretical Group Delay/Frequency Characteristic of n Staggered Triples for n = 1 to 3 (Each triple $f_0 = 17.8 \text{ Mc/s}$, $\beta = 3.76$, $\alpha = .211473$).

6.16 Demonstration of Wide Band Radio Communications Systems by Marconi Company - January 1957.

6.17 Experimental Frequency Modulation of S.T. & C . Valve V190C/1M Operating at 650 Mc/s.

6.18 Handbook for the 12-18 Mc/s Carrier Systems between Broadcasting House and Lime Grove.

1958

6.19 A Method of Equalising Cables for Video Transmission.

6.20 Low Frequency Test Waveform Generator.

6.21 Handbook for the Temporary Circuits between Lime Grove and Crystal Palace.

6.22 U.H.F. Test Meter ME15/2.

6.23 U.H.F. Transmitter Monitor MN1/501.

SECTION 6

1959

- 6.24 Operating Instructions for U.H.F. Power Amplifier. AM14/501X/1.
- 6.25 Handbook for AM5/502 General Purpose Video Amplifier.
- 6.26 Alignment Procedure for Band Pass Filters Types TV/F/20 and TV/F/20A
- 6.21 Line Translating Equipment for Motion Picture Facsimile Equipment.
Operating Information for the Equipment Installed at Alexandra Palace.
- 6.28 Low Pass Filters. FI/502A and B.
- 6.29 Delay Distortion and Quadrature Distortion in Television Receivers,
- 6.30 Line Translating Equipment for Motion Picture Facsimile Equipment (Slow Scan):
Operating Information for Equipment Installed at CBC Montreal.

1960

- 6.31 S Handbook for Television Stabilising Amplifier. AM18/502.
- 6.32 Joint Report BBC/B.R.E.M.A. Working Party on "Rope Effect".
- 6.33 Handbook for External Vision Circuits Terminating at T.C.
- 6.34 Cable Translating Equipment for Motion Picture Facsimile Equipment
(London-N.Y. System).
Part I: Description and Operating Instructions.
Part II: Drawings.
- 6.35 Alignment Procedure for Delay Equalisers Operating in the 10-20 Mc/s Range.

1961

- 6.36 Active Earth Satellite Communication Systems for T.V.

1962

- 6.37 Handbook for Broadcasting House-Western House Coaxial Vision Circuits.
- 6.38 S RC1A/505 Receiver Test Equipment.
- 6.39 Handbook for Stabilising Amplifiers AM18/509, 509A, 509B, C,D & E.

1963

- 6.40
- 6.41 Handbook for Variable Equaliser Type EQ5/509.
- 6.42 T An Investigation of the Subjective Impairment resulting from the addition of Random Noise
to 625-Line Monochrome and Colour Television Signals.
- 6.43 An Investigation of the Subjective Effects of Differential gain and
Phase Distortion on NTSC and PAL Colour T.V. Signals.

1964

- 6.44 T Subjective assessments of the susceptibilities to random noise of the N.T.S.C. System and
the Secam (January 1964). Com T (E)117.
- 6-45T Subjective impairment resulting from the addition of periodic noise to 625-Line Colour
Television Signals. Com T (E)118.
- 6.46
- 6.47 Handbook for variable equaliser amplifier EQ1/505.

1964

- 6.48 Handbook for Variable Phase Equaliser Type EQ5/511.
- 6.49 T Subjective Impairment resulting from Common Amplification of modulated Sound & Colour T.V. Signals to UK 625 Line Stnds. Com.T.(E)131
- 6.50 T Suggested Interim Performance Objectives for 625-line colour Circuits.
- 6.51
- 6.52. T Suggested Performance Limits: for 625-Line Colour Links,
- 6.53. Experimental U.H.F. Receiver, Radio Link, RC4/502 Circuit Description.

1965

- 6.54 O.I.R.T./E.B.U. Paris/London-Moscow colour transmission tests. December 8th, 9th and 10th 1964 tests.
- 6.55 Interim Report E.B.U./O.I.R.T. Colour Transmissions
- 6.56 T Performance of London-Vienna-Moscow Transmission Chain on 13th January 1965
- 6.57 Operating and Alignment instructions for the Experimental Receiver, Radio -Link, RC4/502
- 6.58 T Handbook for Stabilising Amplifier. AM18/504.
- 6.51 T Subjective Assessments of the Susceptibilities of NTSC and SECAM III Colour Television Signals to some typical Distortions which can occur on Long Distance transmission Chains.
- 6.60 T Procedure for the Re-alignment of the OB UHF Link Equipment OT2 on to Channels F & G. (694 Mc/s and 728Mc/s)
- 6.61 T Handbook for 25db General Purpose Video Amplifier Type AM5/511
- 6.62 T Part 1. Meeting of an E.B.U. Technical Working Party M and Network switching sub-group at Turin 18-20 Oct.1965.
- 6.63 T Proposals for a special Monitoring Signal for insertion in Lines 17 and 330 of a 625- Line Television System.
- 6.64 T Handbook for 25db Line sending and General Purpose Amplifier. AM7/505.
- 6.65 T Automatic Monitoring of Television Transmission Characteristics. (A summary of papers submitted at the Turin Meeting of the EBU Working Party M in October 1965)

1966

- 6.66 T Performance Limits for 625 Line Colour Television Links.
- 6.67
- 6.68
- 6.69 Results of Comparative Tests of Radio Links held on Epsom Downs between 16th and 18th May 1966.

1967

- 6.70 Lightning Protection of Transistor Amplifiers in Co-Axial Links.

SECTION 6

1967 Cont

- 6.71 Line up limits for BBC 2 Colour Distribution Chain.
- 6.72 T Re-alignment of Radio Camera Transmitter onto Channel H.
- 6.73 T Handbook for Bode Equaliser Type EQ5/513.
- 6-74T VHF Mobile Link Colour Performance Comparison, Epsom Downs, 15th and 16th August 1967.
- 6 .75T French VHF Link Tests LEP Transmitter CHF/503 and TRT Receiver 7FO/101
- 6.76
- 6-77T Mobile Link Colour Tests ,with Helicoil Aerials, Epsom Downs 13th,14th and 15th November, 1967,
- 6.78T Comb Line Filters for Bands IV & V.

1968

- 6.79 Mobile Link Colour tests, Oxford St. 30th Jan – 1st Feb 1968
- 6.80 Boat Race Colour Tests March 1968,
- 6.81 Performance of Mexico City - London TV Chain used for the 1968 Olympic games

1969

- 6.82 Handbook for OB Cable Equaliser Equipments EP8/501 and EP8/501A
- 6.83 An investigations into the Measurement of Insertion Test Signals on the BBC2 Distribution Network.
- 6.84 Proposal for at New Carrier System
- 6.86

1970

- 6.87 T A guide to Insertion Test Signal Measurements
- 6.88
- 6.89 Signals used by the BBC in Operating Television Transmission Chains,
- 6.90
- 6.91 T Operating Instructions for OB UHF Link Equipment, EP11/501
- 6.92
- 6.93 T Handbook for the UN9/583 Double Diversity Switch.
- 6.94 T Handbook for RC5M/502 Rebroadcast Receiver.

1972

- 6.95 New Arrangements for BH-WH Coaxial Vision Circuits.
- 6.96 Operation of Group Delay Corrector. EQ/521.
- 6.97 Operating Instructions for Sound Sub-Carrier Fail Detector Unit. UN20/541.

SECTION 7

1955

7.1 Operating Instructions for Flying Spot Densitometer, TV/FSD/1X.

1956

7.2 Description of the Television Control Panel, TV/CF/3.

7.3 Television Motor Control Panel, TV/MCP/1

7.4 Television Relay Panel, TV/RLP/7.

7.5 Flying Spot Mechau, FSM/2.

7.6 Transparency Scanning Head, TV/TSH/2,

7.7 Television Gamma Amplifier, TV/GA/5.

7.8 Television Head Amplifier, TV/HA/3.

7.9 Afterglow and Aperture Corrector, TV/EQ/20,

7.10 Some Theoretical and Experimental Characteristics of Random Noise.

7.11 Television Recording. A Review of the Present Position.

7.12 Television Sync. TV/SS/1.

7.13 16mm. Telerecording Equipment, EP4/501.

7.14 Recording Camera Assembly for 16mm. Telerecording Equipment, EP4/501

7.15 Television Sync. - Sine Generator TV/SSG/1.

1957

7.16 Television Distribution Amplifier TV/DA/2.

7.17 TV/EA/1

7.18 E.M.I. Film Motor Drive Panels.

7.19 Display Unit UN/12/501.

7.20 A Simplified Procedure for Finding the Frequency Spectrum of a Transient.

7.21 An Assessment of Flare, etc., in the Film Telerecording Process.

7.22 Amplifier (White Stretch) AM1/501X.

1958

7.23 Amplifier, Non-Linear AM19/501X.

7.24 Determination of Operating Conditions in a Telerecording System

7.25 A Further Report on the Ampex Videotape Recorder VR1000.

7.26 Modifications to Ampex Recorder VR1000.

1959

7.27 The Synchronising System Employed in the Film Facsimile Equipment.

1959

- 7.28 Approximate Field Synchronisation of the Ampex Videotape Recorder VR1000.
- 7.29 R Modifications to the Ampex Videotape Recorder VR1000 to Produce Approximate Field Synchronisation,

1960

- 7.30 Amplifier Non-Linear AM19/502.
- 7.31 R R.C.A. Television Tape Recorder TRT-1A. Conversion to 405-line 50-field Standards.
- 7.32 R R.C.A. Television Tape Recorder TRT-1A. Further Comments on the R.C.A. Television Recorder and some Comparisons with the Ampex Machine.
- 7.33 Pulse Amplifiers for the R.C.A. TRT-1A Television Tape Recorder.
- 7.34 Display Unit PA21/502X.
- 7.35 Clamp Pulse Generator.
- 7-36 R Some Properties of the Frequency Modulated Carrier System Employed on Video Tape Recorders.
- 7.37 Modifications of Ampex VR1000B No.652 to provide Variable Speed Spooling Facilities,
- 7.38 Visibility of Non-Linear Distortion in a Television Signal.

1961

- 7.39 The Performance of the RCA Video Processing Amplifier in the RCA Television Tape Recorder TRT-1A
- 7.40 R Investigation of the Ferranti Cathode Ray Tube Type 9/2.401, Serial No.ST.327.
- 7.41 A Magnetic Drum Store for Video Signals.
- 7.42 Ampex Locking System.
- 7.43 A Direct Reading Magnetometer.
- 7.44 Ampex VR1000B Videotape Recorder Modulator Type 13253-01 Pre-Emphasis Modification.
- 7.45 Ampex VR1000 Videotape Recorder Modulator Pre Emphasis Unit.
- 7.46 Ampex Videotape Recorders: Vision on Sound.
- 7.47 Receiver Time Base Disturbances due to Video Tape Recorders.
- 7.48 Electronic Standards Converter.
- 7.49 Sync. Regenerator.

1962

- 7.50 The Ampex Intersync. Unit.
- 7.51 Flywheel Synchronising Pulse Regenerator UN1/506 and Synchronising Mixer Unit UN1/509.
- 7.52 An Approximate Picture Sync. Unit for the Ampex VR1000, VR1000B & VR1000C Machines.

SECTION 7

1962 cont

- 7.53 The Ampex Amtec Unit.
- 7.55 The RCA TR22 Video Tape Recorder.

1963

- 7.54 The Experimental Ampex VTR No. 1044.
- 7.56 A Channel Switcher modification for Ampex Videotape Machines.
- 7.57 Equaliser Amplifier AXI/515
- 7.58 Vertical Aperture in Electronic Standards Converters.
- 7.59 R The R.C.A. TR222 V.T.R. Modified for HB Working.

1964

- 7.60 Video Amplifier AM1/528.
- 7.61 Line Sawtooth Generator GE1/514.
- 7.62 Technical Information on the Power Supplier PS2/26.
- 7.63 Power Supplier PS2/29.
- 7.64 Field Scan Generator GE1/513.
- 7.65 AGC Amplifier Detector AM3/502.
- 7.66 T Technical Information of Attenuator V.F. AT3/502 and AT3/502A.
- 7.67 T Electronic Line Standards Converter C06/501. Principles and Technical Description,
- 7.68 S Stabilised Power Suppliers PS2/13A-Q, PS2/21A-E, (Superseded by Tech. Inst. G.2.)
- 7.69
- 7.70 The Ampex VH2000 Video Tape Recorder.
- 7.71 Amplifier DC AM1/521.
- 7.72 T Switch Unit UN9/526.
- 7.73 T Motor Drive Amplifier AMI/8
- 7.74 Fault Location in Line Store Converter. C06/501.
- 7.75 T 9/522 Switch Unit.
- 7.76 T Blanking and Sync. Mixer UN1/525.
- 7.77 T Technical Information on the Power Supplier PS2/14
- 7.78 T Filter Panel FL4/521
- 7.79 T A Pick-up Tube Simulator for Vidicon Television Cameras
- 7.80 T Technical Information on the Field Scan Generator. GEI/519
- 7.81 T Field Scan output Amplifier AMI/534
- 7.82 T Main Drive Amplifier AM5/508
- 7.83 T Technical Information on the Line Scan Amplifiers AMI/525
- 7.84 T Technical Information of The Pulse Generator, Field

SECTION 7

1964 cont

- 7.85 Subjective Rating of Magnetically Recorded pictures
- 7.86 T Amplifier Inverter AM5/510
- 7.87 T 500 Volt and 800 Volt Stabilised Power Supplier PS2/31
- 7.88 Performance of Video Tape recorders on NTSC 625 line Colour Signals. Com.T.(E) 165
- 7.89 Compatibility of SECAM and NTSC Recorded Pictures. Com.T(E) 168
- 7.90 The addition of Sub-Carrier Reference Signals to Video Tape Recorders
- 7.91 T The Line Store Converter C06/501. Video Circuits from the Input Disc to the Processing Amplifier Output.
- 7.92 T Telecine Control Processor UN3/509
- 7.93 T UN1/566 Waveform Suppression.
- 7.94 T The Generation and Distribution of Pulses in the Line Store Standards Converter C06/501.
- 7.95 T AMI/536 Motor Drive Amplifier
- 7.96 T PS2/39, 50 V Power
- 7.97 Focus Rock Generator GE4/515
- 7.98 T Power Supplier PS3/27
- 7.99 T Stabilised Power Supplier PS2/23
- 7.100 T 400.v. Power Supplier PS2/32
- 7.101 T Field Trigger Delay Generator GE2/534
- 7.102 T Stabilised Power PS2/2
- 7.103 MC/S Carrier System, for use with Mullard Equipment Ltd, Ultra-Sonic Quartz Lines Type YL2104/07.
- 7.104 T Beam Suppression Amplifier, AMI/537
- 7.105 Chassis CH1/34 for Logic Networks,
- 7.106 T Suppression Pulse Generator GE2/521.
- 7.107 T 10114/3 Delay Unit.
- 7.108 T Carrier Amplitude Modulator MD2/503
- 7.109 Carrier Amplitude De-modulator. DM/502
- 7.110 T Quartz- Delay Network. NE4M/501.
- 7.111 T Switching Logic Unit. UN1/562.
- 7.112 T Sync Pulse Phase Comparator. UN1/563.

1965

- 7.113 T Binary Delay Network. NE4/502
- 7.114 T Line Scan Shift -Control Unit. UN3M/513
- 7.115 T Mixed Blanking Generator. GE2/536
- 7.116 T Reversible Binary Counter. UN1/561.
- 7.117 T Counter Drive Wise Generator. GE2/542.
- 7.118 T Switch Unit. UN9/532,
- 7.119 T Correction Signal Control Unit. UN3/511

1966

- 7.120 T Matrix Unit. UN1/560
- 7.121 T Vertical Aperture Corrector. EP1/504.
- 7.122 T Television Camera. CM3/502.
- 7.123 T Head Amplifier. AMT/531.
- 7.124 Designs Dept. Use of the I.C.T.1900 Series Computers.
- 7.125 Programme Specification- "Subjective Test" (Subj).
- 7.126 Subcarrier Synchronising Unit. UN17/513,
- 7.127 Designs Dept. use of the I.C.T. 1900 Series Computers.

1967

- 7.128 The R.C.A. TR 70 Video Tape Recorder.
- 7.129
- 7.130 Programme Specification- Statistic (Stat).
- 7.131 Summary of VTR Performance on 625-Line PAL signals.
- 7.132
- 7.133 T 16mm Vidicon Telecine. EP6/501.
- 7.134 Some observations on the Optical System of the Designs Dept.
16mm Vidicon Telecine EP6/501
- 7.135 Report on Brandenburg EHT Power Supply. Type 803A
- 7.136
- 7.137
- 7.138 Quartz Delay network, NE4/504.
- 7.139 Vertical Aperture Corrector. EP1M/512.
- 7.140 Head Amplifier. AM1/550

SECTION 7

1968

- 7.141 T Video One Line Delay Unit UN14/503.
- 7.142 T Mixed Blanking Generator GE2/557
- 7.143 T Vertical Aperture corrector Processing Unit UN3/519
- 7.144 Modifications to Line Store Standards Converter. C06/501.
Revised to C06/501A. Supplementary Information,
- 7.145 Video One Line Delay Unit UN14/507.
- 7.146 Modifications to Line Store Standards Converter. C06/501.
Revised to C06/501 A. Supplementary Information.
- 7.147 Vertical Aperture Corrector EPL/516
- 7.148 Flywheel Sync Unit UN1/602
- 7.149 The Input Processing and Luminance AGC systems of the CO6/504
- 7.150 T Chrominance AGC and decoding in the Field Store Converter C06M/504
- 7.151 An investigation into a single tube Colour Camera.
- 7.152 T The Pulse Locking System of the C06/504.
- 7.153 Field Store Standards Converter C06/504 Line-up procedure for the 50 to 60 mode
- 7.154 T Field Store Standards Converter C06M/504 line-up procedure for the 53 to 49 Mode
- 7.155 Printed Circuit Design by Computers
- 7.156 A lumped network simulating a short circuited line and its use for obtaining delay.
- 7.157 Video Switch Unit UN9/567

1969

- 7.158 T Dropout Compensator EP1L/518 and EP1L/518A
- 7.159 Video one line delay unit, tests for Corning Ultrasonic delay line type 854007, UN14/507
type 854007. 7114/507.
- 7.160 Line sweep generator GE4/535
- 7.161 Power Suppliers. PS2/85

1970

- 7.162 T Feasibility Study of a Single Tube Colour Camera using Striped Filters. Restricted Issue.
- 7.163
- 7.164
- 7.165 T Measurement of Sync Pulse instability of a Helical Scan Tape Machine.

- 7.166
- 7.167 Head Clogging Detector. MN1L/510.
- 7.168
- 7.169
- 7.170
- 7.171 T Stabilised Power Supplies. PS2/117, 118, 119 A-B, 120 A-C, PS2/121 A-V.

1971

- 7.172 T Handbook for Anchor, electronic Character Generator. EP1M/521. Parts 1 & 2.
- 7.173 T Time Codes for 16mm Camera Films
- 7.174
- 7.175 T Operation of Anchor Equipment.
- 7.176
- 7.177 T Video Amplifier.
- 7.178 Visit to Germany 1st December 1971 to view the CMX Video Tape Editing System.

1972

- 7.179 T Digital Clock Generator. GE1M/566
- 7.180 T Data Buffer Equipment.
- 7.181 Pre-distortion. A method of improving the signal noise ratio of magnetic recording systems. Restricted issue,
- 7.182 Reference Generator. GM2/606
- 7.183 T Video One Line Delay Unit. UN14/519 A & B
- 7.184 T Monophonic Compatibility of Stereophonic Cartridge Recordings. Restricted Issue,
- 7.185 T Serial Parallel Converter. C01/505.
- 7.186 T Handbook. Byphase Park Decoder. MAIL
- 7.187 T Time Counter Unit. U71/60. Handbook.

1973

- 7.188 T Time Code Reader. CD3M/518
- 7.179 T Telecine Pre-Programmer. EP1M/528
- 7.190 T Auto Registration. EP1M/520
- 7.191 T An investigation into Magnetic Recording at a tape speed of 9.53 cm /s (3 ¾ in/s) Restricted issue.
- 7.192 T Time Code Reproducing Amplifier. AM16/501.

SECTION 8

1953

- 8.2 Preliminary Technical Description for the Television Injection Amplifier, TV/CS/1
- 8.3 Inlay/Overlay.
- 8.4 50 cycle Mains Hold Units Sender, TV/ MHS/1, Receiver TV/MHR/1.

1954

- 8.5 Technical Précis of the N.T.S.C. Report on Colour Television.
- 8.6 Adaptor for Pye Monitors Type 2374.,
- 8.7 The Application of Point Contact, Transistors to Television (Parts I and II)
- 8.8 Description of 50 c/s Television Synchronising Equipment.
- 8.9 A Theoretical Examination of a Proposal to add Colour Information to the Upper Sideband of Band I Transmitters.
- 8.10 Roving Eye
- 8.11 The Television Standards Converter.

1955

- 8.12 Handbook on O.B. Camera Synchronisation.
- 8.13 Transparency Scanner Handbook.
- 8.14 Television Receiver, TV/REC/5.
- 8.15 Preliminary Operating Instructions for Experimental Synchronising Pulse Regeneration Unit.

1956

- 8.16 Modification to Mallard V.H.F. Portable Radio Link for Working on Band I Frequencies.
- 8.17 Phase Shift Unit, TV/PSU/1.
- 8.18 Television Relay Panel, TV/RLP/42.
- 8.19 Equaliser and Filter Panel, TV/EFP/1.
- 8.20 Exciter Lamp Supply, MU/53.
- 8.21 Stabilised Power Supply, SPS/12.
- 8.22 Sub-carrier Divider.
- 8-23S Unit Transformer, UN/11/501.
- 8.24 G.E.C. FM Transmitter Type BRT143 Modifications to Operate in a Frequency Range 41 - 42 Mc/s.
- 8.25 D.C. Quadricorrelator, XC14.
- 8.26 XC1 Colour Bar Generator.
- 8.27 XC2 Frame Scan, Dynamic Convergence, Focus Unit.
- 8.28 XC3 Colour Encoder.
- 8.29 XC4 Decoder.

1956 cont.

- 8.30 XC5 Line Scan and E.H.T. Unit
- 8.31 XC6 Three-Channel Vision Amplifier.
- 8.32 XC7 Crystal Oscillator and Divider.
- 8.33 XC8 Lock Unit.
- 8.34 XC9 Tri-Gamma Unit.
- 8.35 XC10 15" Tricolour Monitor.
- 8.36 XC11 Convergence Grating and Dot Generator.
- 8.37 XC12 Sub-carrier Distribution Amplifier.
- 8.38 XC13 Three-channel Distribution Amplifier.
- 8.39 XC15 Sub-carrier Phase Shifter and Sync. Detector.
- 8.40 XC16 Sub-carrier Phase Shifter.
- 8.41 XC17 Calibrated Phase Shifter.
- 8.42 XC18 R.F. Carrier Unit.
- 8.43 XC19 Wideband Delay Unit.
- 8.44 G.E.C. F.M. Transmitter Type BRT43 Modification to Work at 68 Mc/s.
- 8.45 G.E.C. FM Receiver Type BRT163 Modification to Work at 41 Mc/s.
- 8.46 G.E.C. F.M. Receiver Type BRT163 Modification to Work at 68 Mc/s.
- 8.47 Pye Experimental Helicopter Television.
- 8.48 Two-Way Mixer, MX2/501.
- 8.49 Preliminary Technical Information-on Distribution Amplifier AM4/501X.

1957

- 8.50 Television Scan Unit TV/SCN/5.
- 8.51 XC22 Driven Sawtooth Generator.
- 8.52 Experimental Colour Programmes; Autumn 1956/Spring 1957. A Preliminary Analysis of 120 Questionnaires.
- 8.53 Investigation of Certain Defects in the Colour Picture Produce by the Murphy Colour Receiver.
- 8.54 Colour Bar Cursors for Television Waveform Monitors type B and Modification to Cursor Holder.
- 8.55 Field Performance of the Murphy Colour Receivers, October 1956-May 1957.
- 8.56 Experimental Colour, Programmes: A Preliminary Analysis of 260 Questionnaires for period January 4th to May 17th.
- 8.57 Mutual Conductance Bridge for E180F, and 3A/167M Valves.
- 8.58 R Deccafex Demonstration.

1957 cont.

8.59 R Investigation of a Certain Colour Defect in the Murphy Receiver.

1958

8.60 TVC/EC/1X Colour Encoder.

8.61 S Technical Information on Distribution Amplifier AM4/503.

8.62 S Technical Information on General Purpose Amplifier AM5/501.

8.63 S Pulse Distribution Amplifier AM4/502.

8.64 R Red Rendition of Murphy Colour Receivers.

8.65S Technical Information on Distribution Amplifier AM4/504.

8.66 The Technique of Crispness as Applied to Colour Television.

8.67 R Comparisons of the Various Vectorscopes and Colour Signal Analysers Used to Check the Test Transmissions.

8.68 Parameters of the Colour Bar Signal.

8.69 R Aperture Correction of the Tricolour Tube Type 21AXP22.

1959

8.70 A Method of Producing Prototype Printed Circuit Boards.

8.71 S Unstabilised Power Supply PS3/7.

8.72 S 8-Way Mixer MX8/501.

8.73 S Preliminary Technical Information on Control Panel PA6/502X.

8.74 S Technical Information on Amplifier, Sender, AM7/501.

8.75 Brief Technical Description of the Intercommunication. and Talkback Unit Fitted in Roving Eye II, OT2A/502.

8.76 R Tricolour Tube Convergence Procedure.

8.77 S Technical Information on the Sync. Stabilising Amplifier Type AM18/501.

8.78 Television Live News Unit.

8.79 Radio Camera Communication Control Unit UN3/501.

8.80 50 c/s Locking Voltage Generator -GE1/503.

8.81 S Sync. Selection Panel PA18/501.

8.82 S Control Panel PA6/502.

8.83 S Switch Units UN9/501 and UN9/502.

8.84 S Switch Panels PA18/502, PA18/503, PA18/504.

8.85 S Technical Information on Transistor Video Distribution Amplifier AM4/505.

1960

8.86 S Control Panel PA6/503.

8.87 Technical Information on Power Supplier PS2/502.

8.88 R Asynchronous Operation of a Murphy V310D Television Receiver.

- 8.89 R Two to One Reduction camera for Printed Circuit Applications
- 8.90 Printed Circuit Techniques.
- 8.91 Notes on Ledex Operated Switches.
- 8.92 S Two-Way Mixer MX2/502.
- 8.93 Power Supplier Stabilised.
- 8.94 S Technical Information on the Cue Dot Generator ~~6~~/502.
- 8.95 S Technical Information on Generator, Test; Sawtooth and Lift, GE4/506.
- 8.96 Airborne Band V Transmitter Equipment Operating from 28 volts D.C.
- 8.97 A Transistor Intercommunication Amplifier and its Use on Aircraft Outside Broadcasts
- 8.98 S Pulse Distribution Amplifier AM4/506
- 8.99 Modification to OT2/502 Band V Receiving Equipment.

1961

- 8.100 Modifications to Mallard Transmitter/Receiver Equipment Type GME.550 and Type GFE.506.
- 8.101 Technical Information on Unit, Signalling: UN8/501.
- 8.102 Video Amplifier AM/505.
- 8.103 Technical Information on Power Supplier PS2/503,
- 8.104 Modifications to the Mains Hold Circuit of Marconi Synchronising Generators. Types BD.668B and BD.636E.
- 8.105 Generator, Pulse, Blanking, GE2/501.
- 8.106 Report to S.E.C.(Tel) on Measurements made at Television Centre during February 1961.
- 8.107 Remotely Controlled Studio Camera.
- 8.108 Transistor Tester Type TE1/7.
- 8.109 Preferred Methods of Use of the Chassis Type CH1/12, CH1/13, CH1/14 and CH1/16, the Panel PN3/21 and Ancillary Fittings.
- 8.110 Picture Line-Up Test Generator GE4/508.
- 8.111 The Present State of Airborne Television Techniques.
- 8.112 Conversion of Marconi Mobile Synchronising Generator Type BD668 to Work from 24 - 28V D.C. Power Supply.

1962

- 8.113 Technical. Information on the Cut/Fade Amplifier Type AM1/504.
- 8.114. Technical Information on the Sync. Pulse Stabilising Amplifier Type AM18/503
- 8.115 Preset Law Test Step Generator GE4/509 .

- 8.116 Colour Bar Generator. GE4/512.
- 8.117 Degaussing Coil. UN1/515
- 8.118 S Video Distribution Amplifiers. AM4 /507 and AM4/508.
- 8.119 Grille Generator. GE4/513.
- 8.120 Technical Information on the Split Screen Effects Imot Type UN4/501
- 8.121 Burst Gate Generator. GE2/508.
- 8.122 Constant Line Number Generator Synchroniser. UN1/522.
- 8.123 S Video Distribution Amplifier. AM4/511 and Video Distribution Amplifier R.G.B. AM4/513.
- 8.124 The Addition of Split-Screen Facilities to Studio 4 Television Centre.
- 8.125 5.0 μ s Delay Panel Type. PA7/501.
- 8.126 1.0 μ s Delay Panel Type. PA7/502.
- 8.127 Technical Information on the Producers' Panel Type PA6/507.
- 8.128 MX1/501 O.B. Mixer Producers' Handbook.
- 8.129 Handbook for O.B. Mixer Type MX1/501.
- 8.130 Black Level Generator. GE1/510.
- 8.131 S Line Sending Amplifier, 26dB, AM7/503.

1963

- 8.132 S 0dB Video Distribution Amplifier. AM4/512 and AM4/514.
- 8.133 Tests on the SECAM Coder Type 0.33 Serial No.0.1.
- 8.134 Luminance Unit. UN1/512.
- 8.135 Chrominance Unit. UN1/513.
- 8.136 Power and Sub-Carrier Processing Unit. UN1/514.
- 8.137 Complete Colour Encoder. GE1/509.
- 8.138 Secam. Another compatible colour television system.
- 8.139 15dB Video Amplifier. AM5/507.
- 8.140 Video Matrix. PA9/504.
- 8.141 Technical Information on the Pulse Matrix. PA9/503.
- 8.142 The Addition of Iris and Box Patterns to Early Versions of the UN4/502 Installations.
- 8.143 Performance of SECAM 2 in the presence of Noise and Bandwidth Limitation. Com.T (5) 106
- 8.144 T The Split Screen Effects Unit UN4/502 and A.

1964

- 8.145 Picture Synchronizers. UN1/528 and UN1/528P.
- 8.146

- 8.147 Sync Pulse Separator Unit. UN1/523.
- 8.148 Sync Pulse Monitor. MN2/501.
- 8.149 T Sync Switch Panel. PA18/508
- 8.150 T The Stabilised Power Supplier. PS2/20
- 8.151 Technical Information on the Sync. Pulse Stabilising Amplifier Type AM18/513.
- 8.152 Technical Information on the Delay and Filter Unit Type UN1/532
- 8.153 V Vision Group Mixer MX2/502 Split Screen Facilities
- 8.154 Chrominance Frequency Response of the SECAM III System
- 8.155 T Colour Tests on the Euro-vision Network Tolsford Hill to Hamburg March 3rd 1964
- 8.156 T EBU Colour Demonstration in Hamburg April 8th 1964.
- 8.157 Split Screen Switch. PA18/507.
- 8.158 The Keying waveform Generator. PA1/512.
- 8.159 Technical Information on the Studio Mixers MX1/503 and MX6/501
- 8.160 Slave Lock Receiving Units and Amplifiers UN1/526, UN1/533P, AM1/506 and AMV517
- 8.161. T Technical Information on the cut/fade amplifier AM1/508
Mixing Amplifier AM1/510.
- 8.162
- 8.163 T Design of Automatic Phase Control in NTSC - Type Decoders
- 8.164 T Technical Information on the Power Supplier PS2/505
- 8.165 T Modifications to Sony 5" Television, Receiver T.V. 5 – 30 3E
- 8.166 T Installation Procedure of Colour Television Monitors and Receivers.
- 8.167 Power and Subcarrier Processing Unit UN1/549, 549A and 549B
- 8.168 T N.T.S.C. Chrominance Unit. UN18/502B
- 8.169 Luminance Unit UN19/502/502A/502B
- 8.170 T NTSC Colour Coder GE1/521/521a/521b.
- 8.171 NTSC Sub-carrier Pilot System Demonstration
- 8.172 Technical Information on the Cut/Fade Equipment EP5/501
- 8.173 T Report on the Performance of certain Television Circuits of the Eurovision Network used for a colour Television Demonstration on 27th October and 29th October 1964.
- 8.174 T Sync Switch Panel. PA18/509.
- 8.175 Cancelled.
- 8.176
- 8.177 T Sync Stabilising Amplifier AM18/501 625-Line N.T.S.C. Colour Modification

1965

- 8.178 The Conversion of the Split Screen Effects Unit. UN4/502 to UN4/502B.
- 8.179
- 8.180 Performance of the SECAM III system in the presence of differential phase distortion. 1
Com.T(E) 169
- 8.181 The compatibility of SECAM, PAL and NTSC on domestic receivers London January 1965
Com.T(E) 177
- 8.182 Technical information on the sub-carrier phase shifter UN1/537.
- 8.183 T The addition of a Mains Connector to the PN3A/2
- 8.184
- 8.185 T Chrominance Information in NTSC, SECAM and PAL Colour Systems
- 8.186 T Report to Studio Engineering Committee (Television) on the colour Performance
of Selected Routes through the Television Centre
- 8.187 Power and Sync. Sep. Unit UN1/540
- 8.188
- 8.189 T Luminance Unit UN19/501,501a and 501b
Part of Generator NTSC Decoder I GE1/522 Decoder G GE1/522A
Decoder GE1/522B
- 8.190 T Burst Locked Oscillator Unit. OS1/502.
- 8.191 The PAL System of Colour Television
- 8.192 T Design Study of the use of Linear Integrated Circuits for
Video Distribution Amplifiers.
- 8.193 T Monitor picture 5" MN3/502
- 8.194
- 8.195 T Technical Information on the Video Tape Recorder Identifying Unit. EP1/502.
- 8.196 Tarif Processing Equipment. EP1/503,
- 8.197
- 8.198
- 8.199 T 405 Line and 625 Line Colour Viewing Tests 9th & 10th November 1965.
- 8.200 T Tarif Control Unit. UN3/512.

1966

- 8.201 T Performance of the SECAM 1V System.
- 8.202 N.I.R. Decoder
- 8.203 N.I.R.. Coder
- 8.204 T A Quarter-Squared Multiplier for N.I.R.

- 8.205 T Modification of N.I.R. Parameters Chrominance Pedestal.
- 8.206 T The N.I.R. System-,
- 8.207 T Performance of the N.I.R. system.
- 8.208 SECAM IV
- 8.209 T The Electrical Length of the Delay Line used in PAL and SECAM IV
- 8.210 Not Issued.
- 8.211 T PAL Decoder 625 Line. GE1L/528.
- 8.212 T Video Distribution. Amplifier:. AM4/517 and AM4/518.
- 8.213 T PAL Colour Coder Chrominance Unit. UN18/503 and UN18/503A.
- 8.214 Burst Locked Oscillator Unit. OS1/502 and OS1/502A.
- 8.215 T PAL Colour Encoder. GE1M/526 and 526A.
- 8.216 T PAL Chrominance Unit. UN18/504.
- 8.217 T PAL Filter and Delay Unit. UN1/572,
- 8.218 T Technical Information on the Colour Signal Analyser. UN1/541.
- 8.219 Production of Experimental Thin Film Circuits using Photo-Etching Techniques.
- 8.220 T N.T.S.C. Filter and Delay Unit. UN1/571.
- 8.221 T Colour Matrix Unit. UN1/577 and UN1/577A.
- 8.222 The PAL System.
- 8.223 T Investigations of the Effect of Peak White Limiters on Intercarrier Buzz for Monochrome and Colour Signals.

1967

- 8.224 T Colour Black Level Generator. GE6/504
- 8.225 T Luminance Unit, UN19/503.
- 8.226 T PAL/NTSC Decoder GEiM/529.
- 8.227 T R.G.B.Y. Switch Unit, UN9/544.
- 8.228
- 8.229 Installation Procedure of Colour Television Receivers.
- 8.230 N.T.S.C. Chrominance Unit UN18/505
- 8.231 A Modified Strand Electric Dimming Unit (Restricted Issue)
- 8.232
- 8.233 T Designs Notes on the use of the remote signal Analyser.

- 8.234 Visit to RTRA Conference at Bournemouth Pavilion on 23, 24 April 1967
- 8.235
- 8.236 UN1/584 Unit Receiver UHF Off air Cue
- 8.237 T Loudspeaker and Power Supply. PS1/15.
- 8.238 T Integrated Circuits.
- 8.239
- 8.240 The Modification of the Television O.B. Mixer MX1/501 for Colour Working. (625-Line PAL)
- 8.241 Modification of Decca CTV25 for Line Operation. MN3/504.
- 8.242 Colour Bars.
- 8.243 T X-radiation from Colour Television Receivers and Monitors.
- 8.244 Tests on Colour Television Receivers.
- 8.245 Encoding the output of Four Tube Colour Cameras using the Filter FL4/554 and Matrix UN1/577.
- 8.246 Chrominance/Luminance Timing Tests September 1967
- 8.247 Complexion Chromaticities.
- 8.248 Sync. separator UN1/589.
- 8.249

1968

- 8.250 T Effect of Differential Phase Distortion & Carrier Re-insertion Angle Accuracy on the PAL Colour Picture.
- 8.251 T Colour Receiver Line-up.
- 8.252 Tape Recorder Head Banding on Commercial Colour Television Receivers.
- 8.253 T UN1/585. Unit Receiver VHF Off Air Cue
- 8.254 Picture Monitor 11" MN3/503
- 8.255 T Handbook for Cable Equaliser EQ5/520 A & B.
- 8.256 Making Prototype Thin Film Circuits,
- 8.257 T N.T.S.C. Decoder GE1L/527.
- 8.258 T Specification of BBC Television Standards for 625 line System I Transmitters,
- 8.259
- 8.260 Thin Film Output Amplifier Code CPX00131BCR.

- 8.261 Not Issued.
- 8.262 A report on the Cowes Torquay Cowes Powerboat Race August 31st 1963
- 8.263 Colour Signal Decoders for Transmission Use.
- 8.264 Locked Oscillator Unit, OS1/514
- 8.265 Considerations in the choice of a New Basic Drive Signal
- 8.266 Video Head Amplifier.AM1/575.
- 8.267 Proposal for the design of a PAL: Coder

1969

- 8.268 Colour monitor gamma characteristics
- 8.269 T Video Matrix MA2M/502 (12 x6)Experimental Prototype
- 8.270 6dBVideo distribution amplifiers AM4/519 and AM4/520
- 8.271 Withdrawn.
- 8.272 Facilities provided by the Remote Signal Analyser.
EP1L/508, EP1M/508, EP1M/508P.
- 8.273 New Vision Mixing Equipment for BBC Studios.
- 8.274 S Video, Music and Command Switches in BBC Premises
- 8.275 Withdrawn.
- 8.276 Variable Co-ordinate Display.
- 8.277 Handbook for Video Matrix. MA2M/501 & 502.
- 8.278 T New PAL Decoders for BBC Use
- 8.279 T Insertion Test Signals in Studio Centres
- 8.280 T Handbook on Sync Pulse Generator. GE6L/507
- 8.281 The ORTF Basic Drive Pulse System.
- 8.282 Balanced modulators for Colour Signal Coders.
- 8.283 Investigation into Stabilised Platform Systems for cameras
- 8.284 The Richmond Hill Basic Drive Pulse System.
- 8.285 Operating Handbook for the PA18L/519

1970

- 8.286 Tektronix Type 141A PAL Television Test Signal Generator.
- 8.287 Three Channel R.G.B. Distribution Amplifier. AM4/522.

1970

- 8.288 T Tie Lip 3 Equaliser. EQ5/525.
- 8.289 Handbook on the Colour Signal Synthesizer. PA1M/558.
- 8.290 Technical Handbook for the Colour Signal Synthesizer. PA1M/558
- 8.291 Operation of Colour Overlay and Caption Facilities in Presentation Studios.
- 8.292 The Control of Overlay Facilities on Studio Mixers.
- 8.293 Mixing Techniques.
- 8.294 Overlay Modification of the EP5/502
- 8.295 Tests on Derived PAL Square Wave
- 8.296 Mullard Technical Symposium: "Circuit Concepts for the 70's"
- 8.297 Proposed Acceptance Tests for Thick Film Amplifier 233BA
- 8.298 Modification of CMCR's Type 11 for Colour Separation Overlay.
- 8.299 Matrixing Using an operational amplifier
- 8.300 Technical Information- for Video Matrix Control Systems using I.C.Logic.

1971

- 8.301 A Studio Mixer: Proposals for a New Design
- 8.302 Description of the Greyscale Stability to the Pye 847100 Series of Colour Picture Monitors
- 8.303 Design for Production. A Seminar.
- 8.304
- 8.305
- 8.306 Handbook for Cable Equaliser. EQ5/526A & B,
- 8.507
- 8.308 T Design Considerations for a Master Power Supplier.
- 8.309
- 8.310 T Video Matrix Mixing Amplifier. AM23/505A.
- 8.311 The Hybrid Thick Film Shunt Switch Erie Type 7000-965.
- 8.312 Mechanical stability modifications to the Pye 19" Colour Picture Monitor Type 847100,
- 8.313 Thick Film Video Amplifier I.T.T. 233 BAA.
- 8.314 Greyscale Reference Sources.

1972

- 8.315 Multiplexing and the new Central Apparatus Room.

- 8.316 PAL Coder. CD2L/503.
- 8.317 Modification of the PA18M/522 Soft Keyed Overlay
- 8.318
- 8.319
- 8.320 T The Command Multiplexer (TMIL/520-RCIL/507.
- 8.322 Proposals for a new Outside Broadcast Mixer

SECTION 9

1956

- 9.1 Television Commentator's Monitor, TV/MN/1.
- 9.2 Television Receiver, TV/REC/5.
- 9.3 The Switching Behaviour of the TV/REC/5: Distribution Amplifier XC13.
- 9.4 Handbook for the Television Receiver, TV/REC/5.

1957

- 9.5 Television Commentator's Monitor, TV/MN/1 Description and Provisional Operating Instructions.
- 9.6 The Design of a Linear Phase-Shift Low-Pass Filter.

1958

- 9.7 The Group-Delay Correction of a Network with All-Pass Sections to give a Monotonic Curve.
- 9.8 The Measurement of Random Noise in the Presence of a Television Signal.

1959

- 9.9 Report on a Visit to the Annual Convention of the Fernseh-Technische Gesellschaft (F.T.G.) in Darmstadt.

1960

- 9.10 The Measurement of Return Loss.
- 9.11 The Accurate Measurement of Signal Amplitude.
- 9.12 Report on the 1960 Convention of the Fernseh-Technische Gesellschaft in Stuttgart.

1961

- 9.13 Exact Values of Mutual Inductance in Networks.
- 9.14 Revised C.M.T.T. Random Noise Weighting Network for Television.
- 9.15 A Difference Amplifier with Infinite Rejection.
- 9.16 The Adjustment of Oscilloscope Vertical Amplifiers using the GE4/507.
- 9.17 S The Pulse and Bar Trigger and Calibrating Generator GE4/502.
- 9.18 The Stability of the Mains Supply Frequency.
- 9.19 Delay Networks with Complex Conjugate $I'm''$ Values.

1962

- 9.20 On the Perceptibility of Non-Linear Distortions on NTSC Colour TV Pictures.
- 9.21 Handbook for Field Pulse Inserter Unit UN1/505.
- 9.22 Visit to Darmstadt and Munich, February 1962.
- 9.23 Measurement of Non-Linearity Distortion in TV.
- 9.24 Vertical Interval Signal.
- 9.25 Photometric Units.

- 9.26 Ways towards Perfect Reproduction in the Blacks in Television,
- 9.27 Signal Measuring Sets UN1/511,
- 9.28 Unit Calibration, UN2/502.
- 9.29 Modifications to Provide Standard Camera Mounting Facilities
on the T.F.1277 Oscilloscope.
- 9.30 The Comparative Sensitivity to Random Noise of 405-line and 625-line Pictures.
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