HEAD OF "P" BRANCH

A.F.O. 3334/42

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ADMIRALTY FLEET ORDER

INSTRUCTIONAL FILMS AND CINEMA PROJECTORS FOR THEIR USE—PRODUCTION AND SUPPLY

ADMIRALTY, S.W.1,
16th July, 1942.

The following Order having been approved by My Lords Commissioners of the Admiralty is hereby promulgated for information and guidance and necessary action.

By Command of their Lordships,

H. V. Markham

To all Commanders-in-Chief, Flag Officers, Senior Naval Officers, Captains and Commanding Officers of H.M. Ships and Vessels, Superintendents or Officers in Charge of H.M. Naval Establishments, and Admiralty Overseers concerned.

NOTE :—The scale of distribution is approximately half that shown in the revised Admiralty Fleet Order Volume Instructions—A.F.O. 4544/41, paragraph 10.

Head of "P" Branch

3334.—Instructional Films and Cinema Projectors for their Use—Production and Supply

NOTE.—The cinema projectors referred to in this Order are for use at all stations, seagoing ships excepted.

(N./T.S.D. 759/42.—16.7.1942.)

This A.F.O. combines the information given in A.F.Os. 2685/41 and 4614/41, which are now cancelled. Reference should also be made to :—

C.A.F.O. 1024/41	A.F.O. 241/42
C.A.F.O. 1821/41	A.F.O. 772/42
C.A.F.O. 627/42	A.F.O. 1256/42
C.A.F.O. 777/42	A.F.O. 2236/42
C.A.F.O. 964/42	

2. Consideration of the use of the film as a medium of instruction has shown that it is eminently suitable for Naval purposes, owing to its interest value and scope, especially under present conditions when the periods of training have had to be drastically curtailed and instruction has to be carried out, largely under unrealistic conditions with limited facilities.

3. The instructional film can be employed with advantage for the following purposes :—

(*a*) The elementary instruction of new entry officers and ratings.

(*b*) General education—including an insight into the Empire war effort.

(*c*) Technical and scientific instruction.

(*d*) Instruction in tactical subjects and fighting methods.

(*e*) Recognition of ships and aircraft.

4. All matters concerning the use of instructional films are dealt with by the Film Section of the Training and Staff Duties Division of the Naval Staff, Admiralty, to whom enquiries on the following subjects should be sent. (Letters should be addressed D.T.S.D., Admiralty) :—

(*a*) Allocation, servicing and maintenance of cinema projectors.

(*b*) Production of new film subjects.

(*c*) Projectors in dome aiming teachers. Rypa aiming teacher and miniature tracer teacher.

(*d*) Provision of W.R.N.S. cinema operators, or, where unsuitable, male operators.

(*e*) Distribution of instructional films and establishment of film libraries.

Note.—Matters regarding installation and maintenance of cinematograph equipment in *seagoing ships* should be referred to D.S.D., Bath.

5. *Supply and Maintenance of Projectors.*—(i) *Projectors.*—These can be supplied in either 35-mm. or 16-mm. size, and approval has been obtained for the provision of these to ships and establishments where training is carried out for a minimum of 500 trainees per annum. Requests for these projectors should be accompanied by :—

(*a*) Full details of the dimensions of the space or hall in which it is proposed to instal the projector.

(*b*) Electric current supply available, i.e. A.C. or D.C., voltages, one phase and/or three phase.

(*c*) Details of complement held, numbers of men trained, subjects in which training is given.

(*d*) Films required (*see* attached lists ; all films listed are available in either 35-mm. or 16-mm. size).

Two projectors and two operators will be allowed to each establishment qualifying.

(ii) *Servicing of projectors in shore stations, non-seagoing base ships and D.E.M.S. centres.*—(*a*) It has been recognised that all projectors, whether in domes, miniature tracer ranges or training establishments should be serviced regularly, if possible once every four weeks. Emergency applications for special servicing should be made through D.T.S.D., Film Section, until the full servicing scheme is approved.

(*b*) Applications for spare parts and replacements should be made to Superintending Naval Store Officer, Portsmouth.

(*c*) An instructional handbook is supplied with every new machine.

(*d*) Log books are now ready for issue with all projectors. Particulars of day's running time are to be entered each day.

(iii) *Dome aiming teachers.*—A " Handbook of the Dome A/A Teacher " is being issued, giving full information regarding the working and maintenance of dome teachers.

Replacement films for use in the domes are obtainable on demand through Naval stores (C.A.F.O. 964/42 refers).

In the event of a breakdown other than in the projector, contact should be made direct with Messrs. Technicolor, Ltd., Harmondsworth, Middlesex (Telephone West Drayton 2211).

Any difficulties concerning projectors should be referred to D.T.S.D., Admiralty.

6. *Production of New Films.*—Naval authorities requiring new instructional films to be made should submit proposals through administrative channels to D.T.S.D., Admiralty. These proposals are to include a draft outline of the suggested film, to enable an estimate to be made of the resources required, and the cost. In this connection it should be borne in mind that the production of a film is expensive and a matter requiring a minimum of 3 months' work. Suggestions should, therefore, be carefully considered before they are put forward to consider their suitability for Naval training as a whole, and not simply for local use.

7. *Operators.*—Approval has been given for the complement of establishments able to accommodate W.R.N.S. ratings, to be increased to include two W.R.N.S. projectionists, and the services of these should be utilised wherever possible to release men for sea. Application should be made, concurrently with notification that a projector is to be supplied, to the Local W.R.N.S. Superintendent Officer.

8. *Distribution of Films.*—(*a*) Application for copies of films on *permanent loan* should be made to D.T.S.D., Admiralty, quoting the serial number, prefixed by A, B, C, D, E or F, according to the list in which they are shown, and the full title of the film. The size of film required (35-mm. or 16-mm.) must also be stated.

(*b*) *Films on temporary loan.*—Films can be demanded " on temporary loan " to meet specific training requirements, and arrangements are being made to institute film libraries in various areas, including Scapa, Rosyth, Portsmouth, Devonport, The Nore and London.

Libraries are already in existence at Scapa and London, and applications for films on temporary loan can be made to Fleet Cinema Maintenance Officer, H.M.S. " Dunluce Castle," for the Orkneys, and D.T.S.D., for any other area. Further instructions will be issued later.

(*c*) Requests for films of an instructional nature, not listed in the Appendix to this A.F.O., which may be known to Commanding Officers, should be forwarded to D.T.S.D., with title and details of the source from which the film may be obtained.

(*d*) Undamaged films supplied on permanent loan, which are no longer required, are to be returned to D.T.S.D., Admiralty, D.T.S.D. being informed of their despatch (*vide* paragraph 10 below).

9. *Damage to or Loss of Instructional Films.*—Any damage to or loss of instructional films is to be reported to D.T.S.D., Admiralty, stating how damage or loss occurred. Instructional films which are damaged and cannot be made serviceable, are to be sent to Messrs. Kays Laboratories, Ltd., 22, Soho Square, London, W.1, D.T.S.D. being informed of their despatch.

10. *Confidential Films.*—Films which are starred on the lists should be regarded as confidential, and must only be shown at the discretion of Commanding Officers. If sent by post, these films are to be registered.

11. *Recreational Films.*—Arrangements for the supply of these are made :—

(*a*) *In the case of shore establishments.*—Through the Admiralty Shore Establishment Cinema Fund Committee—Secretary, 123, Regent Street, London, W.1. Telephone : Regent 8080.

(*b*) *In the case of seagoing ships.*—Through the Royal Naval Film Corporation—Secretary, Royal Victoria Yard, Deptford.

12. *Care of Films.*—Unless the films are carefully handled and cleaned regularly, bad reproduction on the screen is bound to result :—

(*a*) Films should be handled as little as possible, care being taken to avoid getting finger marks on the surface. Films should always be re-wound on to spools after showing and kept ready for the next exhibition. Extremes of damp, dryness or heat are bad for them and storage should be arranged as far as possible in an equable atmosphere.

(*b*) A special type of film cement should be used for joining " non-flam " film if breakages occur. Should ready-mixed supplies of this be unobtainable, a suitable cement can be made up as follows :—

Amyl acetate	1 part
Acetone	3 parts
Glacial acetic acid (99 per cent.)	4 parts

' Non-flam " cement should never be used for joining ordinary film, as the acetic acid will destroy the celluloid base.

The non-flam nature of the film is clearly indicated on the tin container. Flam films can be joined by the use of commercial film cement supplied by N.S.O.

(*c*) *Danger of fire.*—It is impossible for all films to be made on a non-flammable or acetate base. For this reason *all* films should be regarded as highly inflammable and care must be taken that they are not exposed to naked light. NO smoking is to be allowed in the projection box or film re-winding rooms. Where considered necessary, Commanding Officers should make application for a film storage cabinet to be supplied through N.S.O., so that a programme of film reels can be prepared and stored safely. It is emphasised that no repair work, electrical or otherwise, should be done where films are in use unless suitable precautions are first taken.

13. *The Use of Instructional Projectors for Recreational Purposes.*—Instructional projectors may be used, when not required for Service purposes, for the showing of recreational films. When used for recreational purposes a part maintenance charge of ¼*d.* a week a head should, under existing regulations, be levied for all personnel borne.

14. *The Use of Commercial Cinemas for Instructional Film Training.*—Arrangements have been made through the Cinematograph Exhibitors' Association for all commercial cinemas in the United Kingdom to be available free for showing Naval instructional films to Naval personnel. This applies only to the hours outside commercial cinema showings and cancels the old system by which Accountant Officers made arrangements locally to pay certain charges to the cinema concerned.

15. *United Nations Training Films.*—All the training films made by the United Nations for the fighting services are being collected and placed in a central library in Washington.

16. Commanding Officers who have an early opportunity of seeing these, particularly American films, are requested to inform D.T.S.D. of any films with particularly high training value.

Notes on the Use of Instructional Films

The instructor should always keep in mind that the film, whether sound or silent, is his assistant and not his master. The film will help him in his teaching but it will not do the teaching for him. The film will help him because :—

(*a*) The moving picture gives a more vivid and lasting impression than a still picture, and infinitely more than a mere word picture.

(*b*) The magnification possible on the screen provides a clear view of objects and processes for a much greater number of people than could gather round the instructor for observation.

(*c*) Slow motion will make clear what happens on occasions when the actual movement is too rapid for the human eye to follow ; and speeded-up motion will compress into a few seconds events which, in fact, take many days to develop.

(*d*) By means of animated diagrams there can be shown the simultaneous processes involved when, for example, the trigger is pressed or a petrol engine is started.

It is of first importance that the instructor should be quite clear not only of the subject of the film shown, but how it deals with the subject matter and when to show it with greatest advantage. Consequently, his preparation should include the following points :—

(1) He should always see the film himself before showing it to a class. (It is also of value to see that the film has arrived from the distribution centre properly serviced and spooled.)

(2) He should note carefully the commentary (or, in the case of silent films, the captions) and be prepared with explanations of points which are difficult to follow.

(3) He should decide the exact point in the lesson when the film is to be used.

Overloading the lesson with material, however good or however interesting, will lead to loss of efficiency as well as confusion in the minds of the officers and ratings under instruction. No period should be wholly devoted to watching the screen, and generally two showings of the same short film will be more valuable than a prolonged showing of two or three different ones. If, for instance, there is a series of a dozen films on the working, mechanism, drill and inspection of a particular piece of mechanism, merely to project the whole series one after another without pause is to invite failure.

Subjects such as aircraft recognition cannot be viewed too often. It is recommended that one reel of these should be included as a " short " in every entertainment programme.

Every reel has it own special part to play ; every reel must be used in illustration of the lesson it teaches, and every reel must be fitted properly into the scheme of work. It should be shown when the class has reached the appropriate stage of instruction, not earlier, nor except for revision purposes, at other times.

Film instruction should be arranged to take a definite percentage of the time available for the subject being taught and should never be more than 50 per cent. of any one period, except possibly for quick revision at the end of a course of instruction.

It will often be useful at the end of the course to show all the films in proper order, to refresh the memory and revise rapidly the ground covered.

Since instructional films have been specially made for the purpose, it is not wise to interrupt the showing for explanations or discussion. To stop a film during projection for such reasons may easily lead to the earlier sequences losing their connection with the later ones, as well as killing the interest which demonstration by films originally evokes. Still pictures or blackboard diagrams should be employed to meet such difficulties after the showing. They will not then interfere with the continuity of the film's work.

LIST " A "

SILENT FILMS

(Numbers 4 to 47* are obsolescent)

Serial No.	Title.	Date made.	Showing time in minutes.
4	Assessment of inclination	1924	9
5	Breech mechanism, 15-in.	1924	3½
6*	Cut-off and compensating gear	1924	5
7	15-in. chain rammer	1924	7
8	Civil disturbance (military platoon quells native riot ; emphasising that only minimum force necessary must be used, and an accurate record of events kept).	1937	12
12	Lewis gun mechanism (shown by sectional models)	1933	11
13	Pusher hoist, 8-in.	1933	8½
15	Submarine battery	1924	30
16*	Spotting practice	1929	9
17	Safety depression control gear	1933	6½
19*	Magazine rounds (daily routine by Officer of Quarters).	1924	11
20	Recoil system (arrangement of 15-in. gun run in and out).	—	7
35*	Torpedo control (exercise " A.C.1 " flotilla attack on single aircraft carrier).	1937	7
36*	Torpedo control (exercise " D.A." theory of destroyer zones).	1937	4½
37*	Torpedo control (low visibility single ship firing. Single destroyer versus single cruiser).	1939	7½
38*	Torpedo control (Night exercise " S.N." Night attack on unscreened battle fleet).	1937	12
42*	Torpedo control (Bruce live practice)	1939	4½
45*	Smoke floats	1939	4½
47*	H.M.S. " Guardian " net laying and recovery trials (two reels).	1935	17
90	Oxygen cutting—some industrial applications ...	—	30
	Part I—Cutting a ship in two. The hand cutting blowpipe.	—	—
	Part 2—Oxygen cutting by automatic machine. Fabrication of ship's parts by various types of machine.	—	—
91	The oxy-acetylene welding of non-ferrous metals (construction of aluminium and copper tanks, etc.).	—	10
92	Depositing stellite with the oxy-acetylene flame...	—	20
93	Oxy-acetylene—an impression of the production and application of these gases (suitable as an introduction to the use of oxy-acetylene). ...	—	20
94	Cast iron welding (repairing fractured and worn castings).	—	10
95	The demolition of the " Mauretania "	—	10
96	Steel tank construction (the rightward and two-welder vertical upward methods of welding).	—	10
97	The Shorter process of surface hardening (methods of application, with many practical examples of shortenizing on gear wheels, shafts, etc.).	—	20
98	Fabricating a steel angle bracket (cutting plates to size and shape and welding with the electric arc).	—	10
99	Elementary oxy-acetylene welding	—	40
	Part 1—Correct procedure for setting up and handling the equipment.		
	Part 2—Instruction in elementary welding emphasising mistakes likely to be made.		

LIST " A "—*contd.*

SILENT FILMS—*contd.*

Serial No.	Title.	Date made.	Showing time in minutes.
100	Bronze welding of light gauge. Copper tubing, fittings and heating and hot water installations.	—	30
101	Fabrication of steel parts (production by means of oxygen machine cutting and electric welding of a bell crank and spur wheel).	—	10
102	Oxy-acetylene welding in automobile engineering (body, chassis and casting repairs. Building up worn parts).	—	20
103	Bronze welding of cast iron (examples of the extensive use made in Australia of bronze welding for the jointing and repairing of iron castings).	—	30
104	Application of oxygen in the steelworks	—	30
105	Cutting heavy section cast iron (showing the removal of a large cast iron spider from a steel shaft by oxy-acetylene cutting).	—	10

SOUND FILMS

22	Funeral of H.M. King George V (for record purposes only).	1936	18
23	Observers' spotting, advanced series (five reels—Exercises for naval observers in aerial spotting and control procedure).	1939	36
24*	Distribution and control of gunfire (3 parts) ...	1938	29
	Part 1—Animated diagrams showing co-operation of aircraft with Battle Fleet, with all wireless signals.	—	—
	Part 2—Selection of targets by each ship. Spotting by aircraft.	—	—
	Part 3—Enemy changes course. Redistribution of fire. Emergency procedure in low visibility.	—	—
25*	Minesweeping—Parts 1 to 7 and 9	1940	—
	Part 1—" A " and " O " sweeps. Swept channels, use of dan buoys.	—	10½
	Part 2—" O " sweep in fast vessels	—	8½
	Part 3—" A " sweep in fast vessels	—	8
	Part 4—" O " sweep in trawlers	—	8
	Part 5—" A " sweep in trawlers	—	8
	Part 6—Formations and turns with " A " sweep	—	11½
	Part 7—Formations and turns with " O " sweep	—	9
	Part 9—Bow defence gear in trawlers	—	10½
26*	Observers' Spotting, elementary series	1940	—
	Part 1—Salvoes—Mean point of impact, over and under, comparison of 15-in., 8-in. and 6-in. splashes.	—	8½
	Part 2—Single ship 15-in. shoot, with commentary and all wireless signals.	—	13
	Part 3—Full calibre firing by " Southampton " class cruiser at " Leipzig " class cruiser.	—	11½
27	The inside story of lubrication	—	40
28*	Asdic Instructional (3 reels. Showing a submarine hunted, detected and sunk by the Portland A/S Flotilla).	1939	30

LIST "A"—*contd.*

SOUND FILMS—*contd.*

Serial No.	Title.	Date made.	Showing time in minutes.
29*	Twin Ammunition Supply, 6-in., Mark XXI mounting (2 reels, shown by animated diagrams and working models).	1939	29
30	6-in. B.L. Gun Drill	1939	11
31	Rule Britannia (a brief survey of Naval Activities in peace time).	1937	5
32*	Recognition of Aircraft	—	—
	Series I (obsolescent)	—	—
	Part 0—Introduction. Showing the various parts of an aircraft.	1940	50
	Part 1—Spitfire, Hurricane, Blenheim, Defiant	1940	11
	Part 2—Wellington, Whitley, Hampden, Blenheim.	1940	10
	Part 3—Anson, Hudson, Sunderland	1940	6
	Part 4—Walrus, Swordfish, Albacore, Roc, Skua	1940	9
	Part 5—Me.109, Me.110	1940	5
	Part 6—Ju.86, Ju.88, Dornier 17, He.111 ...	1940	10
	Part 7—Do.18, He.114, Ju.87, Blohm and Voss, He.115.	1940	10
	Part 8—Review and comparison	1940	10
	Part 9—Beaufort, Beaufighter, Whirlwind, Brewster, Martlet.	1940	13½
	Series II—		
	Part 10—Introduction I	1942	9
	Part 11—Introduction II	1942	9
	Part 12—Spitfire	—	6
	Part 13—Hurricane	—	6
	Part 14—Beaufort	—	7
	Part 15—Hudson III	—	8
	Part 16—Anson I	—	6
	Part 17—Blenheim V and Ju.88	—	6
	Part 18—Heinkel III, Mark V	—	6
	Part 19—Dornier 17 Z	—	6
	Part 20—Junkers 52	—	6
	Part 21—Airacobra	—	6
	Part 22—Typhoon	—	6
	Part 23—Manchester	—	6
	Part 24—Junkers 87 B	—	7
	Part 25—Me.109	—	6
	Part 26—Martlet	—	—
	Part 27—Tomahawk	—	6
	Part 28—Wellington	—	6
	Part 29—Gotha Glider D.F.S. 230	—	6
	Part 30—Stirling	—	7
	Part 31—Halifax and Junkers 90	—	8
	Part 32—Maryland	—	6
	Part 33—Heinkel 115	—	6
	Part 34—Boston III	—	6
	Part 35—Beaufighter II	—	6
	Part 36—Me.110	—	6
	Part 37—Hampden I	—	6
	Part 38—Whitley V	—	6
	Part 39—Fortress	—	6
	Part 40—Lysander and Henschal	—	6
	Part 41—Focke Wulf 200 K.	—	6

LIST "A"—*contd.*

SOUND FILMS—*contd.*

Serial No.	Title	Date made.	Showing time in minutes.
32*	Recognition of Aircraft—*contd.*		
	Series II—*contd.*		
	Part 42—Lancaster	—	—
	Part 43—Defiant	—	—
	Part 44—Focke Wulf 110	—	—
	Part 45—Skua	—	—
	Part 46—Mosquito	—	—
	Quiz Films—		
	(*Note*—These films show flying shots of aircraft, each film covering five aircraft. They will be used for testing the training given by the individual aircraft recognition films and also for more advanced training.)		
	Part 101—Quizcraft I. Spitfire, Hurricane, JU.88, Blenheim IV, Halifax.	1942	10
	Part 102—Quizcraft II. Hudson, Tomahawk, Airacobra, Wellington, JU.87B.	1942	9
48	Passive Defence	1940	—
	Part 1—Type of gases and their effects ...	—	9
	Part 2—Anti-spray clothing and equipment. Steps to be taken for personal decontamination after spray attack.	—	11
	Part 3—Detection and reconnaissance. Reconnaissance party making their rounds after an attack. Precautions to be taken. Discovery of a gas bomb. Method of marking off the contaminated area.	—	10½
	Part 4—Decontamination after bomb attack by special decontamination squad (two reels).	—	15½
	Part 5—Decontamination after spray attack by A.A. guns' crew.	—	7½
53	Fire fighting (shore establishments)	1942	—
	Part 1—Equipment and personnel	—	7½
	Part 2—First aid fire fighting (two reels). Stirrup pump, 2-man manual, hydrant, chemical extinguishers.	—	14
	Part 3—Drill (three reels). Heavy trailer, heavy unit, relaying water, light trailer pump, spray nozzles, hose ramps, flag and hand signals.	—	28
	Part 4—Practical demonstration on a burning house.	—	9
	Part 5—Oil fuel fire fighting	—	5½
54	"Full Tilt"—The story of the Fairmile patrol boat (three reels). Shows how these craft are built by mass production methods.	1941	32
55*	Launching and recovery of aircraft in ships fitted with catapults (three reels).	1940	31
56*	A.A. gunnery. Eyeshooting (in colour)	1941	—
	Part 1—Introductory. Meaning of "aim-off"	—	10
	Part 2—Approach angle	—	15
	Part 3—Shows how amount of aim-off to be applied is affected by approach angle and speed of traget. Use of the cartwheel sight.	—	18
	Part 4—Respective responsibilities of layer and trainer.	—	7½

LIST "A"—*contd.*

SOUND FILMS—*contd.*

Serial No.	Title.	Date made.	Showing time in minutes.
56*	A.A. Gunnery. Eyeshooting (in colour)—*contd.*		
	Part 4A—The fence sight	—	3½
	Part 5—Maximum effective range	—	9
	Part 6—Effect of range on aim-off. Tangent elevation.	—	8½
	Part 7—Effect of banking. "Lift"	—	10
	Part 8—Effect of wind	—	15
	Part 9—Demonstration attacks	1942	11
	Part 10—Aiming practice (typical attacks) ...	—	10
	Part 11—Aiming practice (German attacks) ...	—	10
	Part 12—Aiming practice (Italian attacks) ...	—	10
	Part 13—Aiming practice (Japanese attacks) ...	—	10
57*	The elementary theory of asdics (three reels) ...	1941	28
59*	Meeting the U-Boat Menace (two reels). A short film of a light nature designed to encourage ratings to specialise in the submarine detector branch. Suitable for inclusion in entertainment programmes.	1941	23
60	The Gun. (Primarily designed to inform American opinion on the necessity for arms production in relation to the battle of the Atlantic. Suitable for preliminary instruction of H.O. ratings as a film of general war interest.	1941	30
61	Duties of Look-outs. (Arcs of sweep. Use and care of binoculars. Methods of reporting. What to look for. A.A. Look-outs. Look-outs at night).	1941	23
62	The McGregor Williams method of life saving ...	1941	6
63	Duties of the helmsman. (Principles of steering, wheel and course orders, use of telegraphs and engines).	1941	25
64	Boat work	1941	—
	Part I—Introduction. Types of boats in use in the Navy and their construction.	—	10
	Part 2—Preparing a seaboat. Lowering and hoisting a whaler under way.	—	12
	Part 3—Not yet completed	—	—
	Part 4—Boat pulling	—	10
	Part 5—Sailing (two reels)	—	16
65*	Combined operations. (Craft, gear and tactics, with an introductory reel describing the capture of Narvik by Allied forces in May, 1940).	1941	35
66	Taking soundings. (The hand lead and Kelvin machine).	1941	25
68*	U-Boats—Recognition and attack by naval aircraft.	1941	—
	Part 1—Types and construction. Appearance in various states of trim when viewed from the air. Examples of traces left when submerging.	—	7
	Part 2—Method of attack by naval aircraft ...	—	—
69*	A.A. Gunnery. Use of tracer ammunition (in colour).	1941	—
	Part 1—(Three reels). Observation of tracer	—	21
	Part 2—"Hosepiping"	—	11
	Part 3—(Two reels) tracer—assisted eyeshooting	—	16

LIST "A"—*contd.*

SOUND FILMS—*contd.*

Serial No.	Title.	Date made.	Showing time in minutes.
70*	U-Boat attacks on convoys. (One reel each part. A series of diagrammatic films based on analysis of actual incidents illustrating the lessons to be learnt from U-boat attacks on convoys.)	1942	—
	No. 1	—	7
	No. 2	—	7
	No. 3	—	7
71	The Luftwaffe. (An aid to aircraft recognition showing German aircraft in action).	1941	28
72	"Lets Talk Rubbish." (The salvage of waste materials in the Navy.)	1941	9
73*	Magnetic minesweeping—The LL sweep	1941	—
	Part 1—First principles	—	12
	Part 2—Handling the gear	—	5½
	Part 3—Operation of the sweep (two reels) ...	—	18
	Part 4—Formations and turns (two reels) ...	—	19
74*	Radiolocation. (*See* C.A.F.O. †)	1942	—
	Part 1—Elementary principles	—	9
	Part 2—In production	—	—
	Part 3—In production	—	—
	Part 4—In production	—	—
75*	Asdic operating procedure	1942	—
	Part 1—Simple contact procedure. Layout and basic use of equipment.	—	12
	Part 2—Simple sweeping procedure	—	5
	Part 3—Advanced contact procedure. Holding swing of ship. Lost contact procedure. Bearing drawing rapidly right or left. Final stage of attack, showing types 124 and 128.	—	10
	Part 4—Practical demonstration of an attack...	—	8½
76	Raising steam. (Shows the process in a J class destroyer, with a description of the Admiralty 3-drum water tube boiler).	1942	20
77*	Deck landing. (Two reels. Layout of flight deck Ranging. Taking off. Accelerator. Landing. Use of bats. Controlled landings.)	1942	22
78	First aid in the Royal Navy	1942	—
	Part 1—Types of unconsciousness. (Two reels. Concussion, intoxication, fits and fainting.)	—	16
	Part 2—Simple anatomy. (Two reels. Bones of the skeleton.)	—	21
	Part 3—Common forms of fracture. (Three reels. The Neil Robertson stretcher. The Thomas splint. Application of slings.)	—	30
	Part 4—Bleeding. (Two reels. Circulation of the blood, stopping hæmorrhage, use of St. John's tourniquet.)	—	20
80*	Daily inspection of naval aircraft	1942	—
	Part 1—The walrus. (Four reels)	—	33
81	"Air gunner." (Eight reels. A "cautionary tale" taking three air gunners through their training and demonstrating mistakes of all types which are commonly made by them due to negligence and thoughtlessness.)	1942	80
83	Tracing an earth. (Two reels. Shows a repair party tracing and locating an earth in one section of the ring main.)	1942	17

† To be published later.

LIST "A"—*contd.*
SOUND FILMS—*contd.*

Serial No.	Title.	Date made.	Showing time in minutes.
85	"One Company." Y entry recruiting film, showing entry and training of three boys destined for pilot, observer, and executive officer.	1942	40
87*	The Vaagso Raid. Four reels. Shows the methods described in Serial No. A.65 ("Combined operations") put into practice in an actual operation.	1942	30
106	Close combat. (How to defend yourself even though unarmed.)	1942	25
107	The Kriegsflotte. Complementary film to A.71 (The Luftwaffe) showing German warships and naval aircraft.	1942	13

LIST "B"

Serial No.	Title.	Date made.	Showing time in minutes.
	Armoured Fighting Vehicles		
136	Friend or foe	1941	25
	Part 1—Recognition of British A.F.Vs. ...	—	—
	Part 2—Recognition of British A.F.Vs. ...	—	25
	Armoured Fighting Vehicles—Weapons		
162	Tank weapons—Besa and 2-pdr. ... ... General description.	1941	9
193	Besa gun	1941	45
	Reel 1—Stripping the Besa machine gun ...	—	—
	Reel 2—Care and cleaning	—	—
	Reel 3—Mechanism	—	—
	Reel 4—Immediate action	—	—
	Reel 5—Immediate action—*contd.*	—	—
194	2-pdr. gun	1941	27
	Reel 1—Stripping and assembly...	—	—
	Reel 2—Mechanism	—	—
	Reel 3—Care and cleaning	—	—
	Artillery—Anti-Aircraft		
108	Field clinometer and secondary battery—"Bubble and Juice."	1940	—
	Part 1—Tests and adjustments to clinometer ...	—	9
	Part 2—Testing and maintenance of battery, with some remarks on cables.	—	9
116	Guns—3·7-in.	1940	—
	Part 1—Breech mechanism	—	9
	Part 2—Recoil system	—	8
	Part 3—Recoil system—Control...	—	7
104	Height-Finding—Principles of	1940	10
109	Height-Finding—Conversion gears...	1940	20
112	Mechanical Mathematics. A.A. instruments ...	1940	—
	Part 1—Addition and subtraction	—	8
	Part 2—Multiplication and division	—	6
	Part 3—Solution of triangles	—	7
	Part 4—"Memory." Explains graphic range tables and three dimensional cams.	—	9

LIST "B"—*contd.*

Serial No.	Title.	Date made.	Showing time in in minutes.
	Artillery—Anti-Aircraft—contd.		
144	Predictors. The No. 1	1941	—
	Part 1—The Gunnery problem and its theoretical solution.	—	10
	Part 2—Method and mechanism	—	10
142	Predictors. The No. 2	—	—
	Part 1—The Gunnery problem and its theoretical solution.	—	10
	Part 2—Method and mechanism	—	10
101	Predictors. The Sperry	1940	—
	Part 1—Examination of equipment	—	15
	Part 2—Tests and adjustments	—	10
102	Predictors. The Vickers	1940	—
	Part 1—Examination of equipment	—	12
	Part 2—Tests and adjustments	—	10
113	Searchlight—A.R.C.	1940	—
	Part 1—Speed and directional control	—	11
	Part 2—The projector driving motor and impulser.	—	9
	Light A.A. Series	1941	—
173	Layout and remote control	—	10
175	Ordnance Q.F. 40 mm.	—	10
176	Ordnance Q.F. 40 mm. (contd.)	—	10
177	The gunnery problem and theory of its solution with No. 3 predictor.	—	10
178	Method of solving the gunnery problem with Predictor No. 3.	—	10
180	Mechanism of Predictor No. 3	—	10
	Artillery—Coast Defence		
265	Barr and Stroud Range Finding. Theory, drill and mechanism as applied to 9-ft. Barr and Stroud range-finder.	1942	15
	Bridging.		
135	Assault Bridge. Reconnaissance, organization and construction of a complete kapok bridge.	1941	38
118	Box Girder Bridge—Small. Reconnaissance of site, and erection.	1941	18
	Pontoon Equipment, Mark V	1942	—
284	Part 1—Construction and use of rafts	—	20
305	Part 2—Construction and use of trestles, sliding bay and half floating bay.	—	33
306	Part 3—Construction and use of pontoon landing bay.	—	20
	Chemical Warfare.		
163	Gas. Dealing with the care and maintenance of gas equipment and its employment in the field.	1941	47
	Concealment.		
139	Camouflage for all arms	1941	27
	Fieldworks.		
206	Protective Earthworks. Showing details of drainage, revetment and repairs.	1941	23
278	Use of mechanical equipment in Defence. Shows, mechanical methods of excavation, levelling and haulage.	1942	20

LIST "B"—*contd.*

Serial No.	Title.	Date made.	Showing time in minutes.
	Home Guard.		
134	Observation and Reporting. Showing the right and wrong method of conduct at an observation post, and correct way of dealing with information.	1941	18
150	Safety in handling weapons ... ... (*N.B.*—This film is only of interest to the Home Guard.)	1941	36
207	Defence of a small town. Putting a small town in a state of defence.	1942	45
	Infantry.		
117	March Discipline. Showing inspection of a unit, discipline and procedure on the march, action against air attacks, and the return to camp.	1941	18
119	Platoon in Attack. Platoon taking an M.G. position in open country.	1940	27
122	Platoon in Defence. Platoon holding a position in open country.	1941	27
120	Infantry Reconnoitring Patrol by Day. Deals with orders for patrol, preparation, bounds, methods of movement over varying types of country, and finally the return to report information.	1941	36
153	Infantry Reconnoitring Patrol by Night. The same by night.	1941	18
123	On Parade. A demonstration of foot and arms drill.	1941	18
	Information and Intelligence.		
107	Name, Rank and Number. Interrogation of prisoners of war. Shows various German methods of obtaining information from prisoners.	1940	36
307	Next of Kin. Full-length feature film dealing with Security. A Brigade Group is trained and equipped for a raid on the French Coast. The whole operation is given away to the enemy through careless talk, espionage, etc.	1942	100
	Mechanised Transport.		
	Technical.		
86	Battery and Dynamo	1937	—
	Part 1. Elementary primary and secondary cell to evolution of accumulator.	—	11
	Part 2—Generation of current by elementary mechanism and builds up dynamo.	—	9
	Part 3—Protection of dynamo	—	10
82	Brakes	1937	—
	Part 1—Object of brakes on M.T. vehicles. Components of internal expanding brakes.	—	10
	Part 2—Deals with girling, hydraulic and servo systems. Touches on brake efficiency.	—	10
157	Compression Ignition Engine. First principles: Illustrated by sectional working models and animated diagrams. (Made by Shell Film Unit.)	1938	6
83	Gears	1937	—
	Part 1. Builds up from simple levers and wheels the principle of the gear-box.	—	10
	Part 2—Shows gears and shafts in crash type gear-box and deals with selector mechanism.	—	10

LIST "B"—*contd.*

Serial No.	Title.	Date made.	Showing time in minutes.
	Mechanised Transport—contd. *Technical*—contd.		
88	I.C. engine	1937	—
	Part 1—Introduction of Petrol Engine. Deals with the elementary principles of the I.C. engine. Shows working of the Otto or four-stroke cycle.	—	10
	Part 2—Four-stroke cycle. "T" and "L" headed engines. Builds up and explains a single-cylinder engine.	1938	10
	Part 3—Components. Deals with valves and valve timing of a single-cylinder engine.	—	10
	Part 4. Builds up with analogies, from single cylinder to a six-cylinder engine. Shows evolution of crankshaft from one to six cylinders. Shows balance and firing orders.	1939	10
	Part 5—Four-cylinder Engine. Elaborates valve positions and cylinder heads. Deals with camshaft drives and indicates other components. Shows firing order for four cylinders.	—	10
	Part 6—Carburettors. Explains the necessity for carburettor. Builds up from simple principles, by diagrams to a practical carburettor. Shows action and deals with various types.	1939	10
	Part 7—Coil ignition. Introduces induction by diagrammatic means. Builds up induction coils. Shows components and working of a complete coil ignition system.	1939	10
85	Magneto ignition	—	—
	Part 1—Deals briefly with elementary magnetism. Shows main components and condenser.	1937	10
	Part 2—Examination and faults	—	10
158	Petrol Engine—Lubrication. A study of the lubrication problem of a petrol engine. Illustrated by sectional working models and animated diagrams. (Made by Shell Film Unit.)	1937	15
81	Steering	1937	—
	Part 1—Builds up and explains components of Ackerman steering as applied to motor vehicles.	—	10
	Part 2—Deals with various steering boxes and shows some faults.	—	10
318	War time Journey. Shows importance of road sense and avoidance of careless and dangerous driving.	1942	36
293	Task 16—Care of Tyres. Depicts the manufacture and re-conditioning of tyres, their care and maintenance.	1942	18
	Medical and Hygiene.		
151	Water Purification. Deals with the filtration, sterilization and distribution of water in the field; and the training of water duty personnel.	1941	37
209	Mosquito and Malaria. Demonstration of preventative equipment.	1942	18

LIST "B"—*contd.*

Serial No.	Title.	Date made.	Showing Time in minutes.
	Medical and Hygiene—contd.		
210	Housefly. Showing cause of dysentry and other sickness.	1942	18
211	Louse. Decontamination of personnel. Effects of lice as regards typhus, etc.	1942	18
	Messing.		
138	The Soldiers' Food	1941	—
	Part 1—The New C.O. Messing committees, and storage of perishable goods.	—	18
	Part 2—Come to the Cookhouse. Discussing all types of cooking equipment, and two systems of saving up food.	—	24
	Part 3—Waste and Taste. The use of the stock pot, elimination of waste in food and the clarification of fat.	—	18
	N.B.—These parts can be run separately, or as one continuous film.		
	Obstacles.		
132	Anti-Personnel Obstacles (Elementary). The erection of, protection obtained from, and methods of overcoming wire. ...	1941	18
133	Anti-Personnel Obstacles (Advanced) Booby Traps.	1941	18
146	Anti-Vehicle Obstacles (Elementary). Showing the use of tank obstacles, including road blocks, wire rope obstructions, ditches, slopes and trees ; and defensive tactics.	1941	40
147	Anti-Vehicle Obstacles (Advanced) erection of road obstacles, such as rails and concrete blocks.	1941	18
	Signals.		
124	Cable Laying—Cable "D" 8. Employment of mechanical cable layer No. 1 and showing the duties of personnel.	1940	18
126	Corps Signal Office. Establishing of	1941	27
125	Divisional Signal Office. Establishing of... ...	1941	35
	Tactical and Operational.		
221	River Crossing. A diagrammatic analysis of the planning, deployment and conduct of a typical river crossing operation by an Infantry division. (*N.B.*—For Senior Officers only.)	1942	18
	Weapon Training.		
91	Anti-Tank Rifle—The "Boys"	1939	—
	Part 1—Introducing A.F.Vs. loading, unloading and aiming guns.	—	10
	Part 2—Holding and firing. Methods of ... transport.	—	10
	Part 3—Sighting and handling	—	10
	Part 4—Mechanism and detail	—	10
115	Lee-Enfield Rifle. ·300, Pattern 17	1940	—
	Part 1—Introduction. Parts and mechanism	—	10
	Part 2—Demonstration of firing positions ...	—	10

LIST "B"—*contd.*

Serial No.	Title.	Date made.	Showing time in minutes.
	Weapon Training—contd.		
99	Mortars—3-in.	1939	—
	Part 1—Introductory	—	10
	Part 2—General description, aiming and laying	—	10
	Part 3—Drill	—	20
	Part 4—Battle procedure. Reconnaissance for detachment position.	—	10
	Part 5—Battle procedure. Occupation of defensive position.	—	10
	Part 6—Fire control. Methods of obtaining direction and methods of control.	—	10
191	Shoot to Kill. Emphasising the importance of holding fire when employing the rifle, Bren and "Tommy" guns, A/T rifle and A/T 2-pdr. gun.	1941	37
	General.		
129	Provision and Replenishment of Petrol in the Field	1941	27
155	Everybody's Business. Fire prevention	1941	18
202	Unarmed Combat. Methods of attack and defence, showing how an unarmed man can deal accurately and quickly with a ruthless enemy.	1941	28
190	Soldiers' Clothing and Equipment. Dealing with the care and maintenance of clothing and equipment as an aid to national economy.	1941	21
192	Troops Across Britain. The avoidance of damage to crops and farm properties during training and manœuvres.	1941	16
208	Salvage Sense. Showing importance of salvage and method of collection within the unit.	1941	17
198	U.X.B. Unexploded bombs. Shows the types and construction of enemy bombs—bomb reconnaissance and the system of reporting unexploded bombs.	1941	60
	(*Note.*—This film is constructed to run as one continuous whole, comprising the six reels as below. It can, however, be run in the three separate sections as indicated.)		
	Reel I, Reel II: Types of enemy bomb—their construction, and the problems of bomb reconnaissance.	—	—
	Reel III, Reel IV: Dealing with fuzes, booby-traps, parachute mines, incendiary bombs, cannon shells and the like.	—	—
	Reel V, Reel VI: A raid takes place—and the system of reporting unexploded bombs, and the allocation of category is explained.	—	—
287	Economy of Fuel. Economy in use of coal, gas and electricity.	1941	18

LIST " C "

Serial No.	Title.	Date made.	No. of reels.
	Flying.		
92–96	Principles of flight	1938	5
98–104	Principles of flight	—	7
185–186	Principles of flight	—	2
168–169	Principles of flight	—	2
201	Interpretation of A/C Instruments	1938	3
366	Tactical use of clouds	1941	2
716	Wings over the Atlantic—Diagrammatic record of " Bismarck " action.	1942	3
	Bombs and Torpedoes.		
	Lessons for the Bomb Aimer :—		
321–322	Elementary theory	1941	2
323–324	Finding wind speed and direction by 3-course method.		2
325–326	Finding wind speed and direction by timing head and wind gauge bar.		2
327–328	Bombing procedure		2
329–331	Dive bombing		3
416	Aircraft torpedo	1941	5
604	Re-arming a bomber	1942	2
728	Re-arming a fighter	1942	4
	Engineering.		
	Internal Combustion Engine :—		
175	Heat and work	1935	1
176	Four-stroke cycle	—	1
177	Valve timing	—	1
210	Claudel Hobson carburettor	—	1
211	Ignition	—	1
212	Two-stroke cycle	—	1
242	Cooling	—	1
243	Elementary supercharging...	—	1
244	Principles of carburation	—	1
245	Magnetos	—	1
187	Orthographic projection	1938	3
273	The Micrometer	1940	1
344	Variable Pitch Airscrews	1940	2
413	The Vernier Scale	1939	1
449	The Dowty Hydraulic System	1941	3
464	Maintenance of Poppet Valve Cylinder Assembly...	—	2
467	Maintenance of Sleeve Valve Cylinder Assembly ...	—	3
720	The Master Control Carburettor	1942	3
724	Ignition	1942	3
690	Hydromatic Airscrews	1941	3
	Maintenance.		
314	Daily Inspection of a Spitfire—Shows duties of wireless electrical mechanic, rigger, armourer, mechanic.	1940	5
362	Maintenance of Sparking Plugs	1940	2
	Electrical Subjects.		
52	Current of Electricity	1933	2
160	Thermionic Valve	1934	4

LIST " C "—*contd.*

Serial No.	Title.	Date made.	No. of reels.
	Air Navigation.		
33	Course Finding	1938	3
170	Map Projection	1938	3
197	Fixing Position	1938	3
700	Cross Country Map-Reading	1942	4
	Air Gunnery.		
251	Lessons in Aiming for A/Gs	1940	3
256	Tracer Method of Air Sighting	1940	2
471	Turret Drill—Frazer Nash and B. and P. Turrets ...	1941	6
	Air Safety.		
422	Dinghies for Fighter Aircraft—The " K " Type Dinghy.	1941	2
589	Lindholme Dinghy—For Rescuing Crews	1941	2
778	" Prepare for Ditching "—Ditching Drill as applied to a Halifax.	1942	5
	Balloons.		
618	Balloon drills—Balloon handling	1941	7
205	Knots, splices and balloon repairs	1939	4
73	Knots, lashings and lifting gear	1939	3
	Naval Co-operation.		
274	German warships	1940	6
372	Italian Navy	1940	7
402	Know your own Navy	1941	3
	Meteorology.		
78	Fog	1939	3
82	Ice formation	1939	3
191	Temperature, pressure and wind	1940	4
264	Synoptic Meteorology...	1940	4
	Medical.		
445	Use of oxygen in high altitude flying	—	3
505	Effect of centrifugal force on crews—Effects of " G " on air crews.	—	2
	Ground Defence.		
502	Lessons in aiming for machine gunners	1941	2
515	Observation and reporting	1941	2
892	Fighting unarmed	1942	4
	Religious and Disciplinary.		
47	Cross beams—Religious film	1938	3
356	Our Bible—Religious film	1940	4
260	Discipline and morale...	1940	2
607	The first thing—Elementary drill for recruits ...	1941	1
784	Spirit of service—Morale	1942	4
663	Squaring the circle—Deals with the need for re-mustering to a higher grade.	1941	3
	Salvage.		
531	Salvage with a smile	—	1
532	Feed the furnaces	—	1
733	Waste not—Want not	1941	3
714	Salvage sense	—	1

LIST "C"—*contd.*

Serial No.	Title.	Date Made.	No. of Reels.
	Gas		
407	Defence against gas—As applied to R.A.F. stations	1940	4
	Miscellaneous		
43	Boxing do's and dont's	1936	3
259	Fire-fighting—In relation to aircraft	1939	1
333	Morse signals	1941	5
350	Morse signals, with interference. Morse signals at 18 w.p.m. with and without interference.	1941	5
249	Camouflage—A short colour film which forms an introduction to the subject of camouflage of buildings.	1940	1
339	Interrogation of prisoners of war—In the form of a narrative dealing with pitfalls which await prisoners in enemy's hands.	—	3
	Aeroplane Recognition.		
222	Spitfire	—	1
223	Hurricane	—	1
224	Defiant	—	1
225	Blenheim I	—	1
226	Blenheim IV	—	1
227	M.E.109	—	1
228	M.E.110	—	1
229	Heinkel III K.M.3	—	1
230	Heinkel III M.5	—	1
231	Dornier 17	—	1
232	Dornier 215	—	1
233	H.E. 115	—	1
234	Ju. 87	—	1
235	Ju. 88	—	1
236	D.O. 18...	—	1
237	H.S.126	—	1
238	H.E.112	—	1
239	Whitley...	—	1
240	Wellington	—	1
241	Hampden	—	1
284	Hudson	—	1
285	Beaufort	—	1
286	Botha	—	1
287	Savoia S.79	—	1
288	Breda 65	—	1
289	Savoia S.81	—	1
290	Cant Z.1007	—	1
291	Breda 88	—	1
292	Boston	—	1
293	Cleveland	—	1
294	Fulmar	—	1
295	Maryland	—	1
296	Buffalo	—	1
297	Mohawk	—	1
298	Caproni 310	—	1
299	Chesapeake	—	1
300	Fiat B.R.20	—	1
301	Fiat C.R.42	—	1
302	Fiat G.50	—	1
303	Macchi	—	1
304	Test Reel 1	—	1
305	Test Reel 2	—	1
306	Test Reel 3	—	1

LIST "D"

Ministry of Information Films (501–523)
British Council Films (551–570)

Sound Films suitable for Training Establishments for use in stimulating interest and morale.

Serial No.	Title.	Length 35 mm.	Running time.
		Ft.	Mins.
501	Atlantic patrol	895	10
502	All hands (security film)	1,032	12
503	Coastal defence	970	11
504	Corvettes	699	8
505	Ferry pilot	2,279	30
506	Fighter pilot	701	8
507	Food convoy	927	10
508	Heroes of the Atlantic	1,389	15
509	H.M. Minelayer	736	9
510	H.M. Navies go to sea	979	11
511	India's Navy grows	594	7
512	Keeping the fleet at sea	993	11
513	Lofoten	564	7
514	Men of the lightships	2,372	26
515	Merchant seaman	2,179	24
516	Naval operation	662	7
517	Royal Australian Navy	602	7
518	Sam Pepys joins the Navy	734	9
519	Sea cadets	715	8
520	Seaman Frank goes to sea	657	7
521	Target for tonight	4,468	50
522	The pilot is safe	780	9
523	W.R.N.S.	746	8
551	North sea	2,700	30
552	Night mail	2,110	24
553	British navy	1,490	16
554	Voyage of the "Ashanti"	1,050	11
555	So this is London	1,320	15
556	London river	1,500	17
557	Mastery of the sea	1,641	18
558	Sea scouts	1,000	11
559	S.O.S.	1,180	13
560	Sailors without uniform	927	10
561	Steel goes to sea	1,531	16
562	Raising air fighters	1,580	18
	Technical.		
563	First principles of the petrol engine	962	10
564	First principles of the compression ignition engine	410	5
565	Transfer of power	1,946	22
566	Speaking from America	950	11
567	Springs	1,166	15
568	How the telephone works	810	9
569	First principles of lubrication	500	6
570	Lubrication of the petrol engine	1,240	14

LIST "E"

Miscellaneous

Propaganda films somewhat out-dated but useful for New Entry training especially in giving a general view of the work of the Royal Navy.

(1 reel = approx. 10 minutes.)

Serial No.	Title and Description.	No. of reels.	Distributed by
602	Battle Fleets of Britain (an American film showing in general survey the striking force of the Navy).	2	March of Time, Ltd.
603	A Naval Occasion (an account of the maiden voyage of H.M.S. "Aberdeen" to join the Mediterranean Fleet).	1	General Film Distributors.
604	Mastery of the Sea (the Navy's Watch of Merchantmen).	2	A.B.F.D.
	Unconquerable Minesweepers	2	General Film Distributors.

LIST "F"

Technical Films available from Commercial Sources

(1 reel = approx. 10 minutes.)

Serial No.	Title.	No. of reels.	Distributed by
701	The Cathode Ray Oscillograph (demonstrates the working of the C.R. Oscillograph and its use in radio research and D/F).	2	G.B. Equipments.
702	The Fundamentals of Acoustics	1	Sound Services, Ltd.
703	Sound Waves and their Sources	1	Sound Services, Ltd.
704	The Micrometer	1	Brent Laboratories, Ltd.
705	The Vernier Calliper	1	Brent Laboratories, Ltd.
706	The Maintenance of Sparking Plugs ...	2	Bristol Aeroplane Co., Ltd.
707	Aircraft Design (a study of the research work of the National Physical Laboratory in connection with improvements in aircraft design. Shows research work in the Metallurgy and Aerodynamics Depts.).	1	G.B. Equipments, Ltd.
708	Steel (scenes of general interest taken in forges and foundries).	1	G.B. Equipments, Ltd.
709	Nine films on swimming and diving ...	–	G.B. Equipments, Ltd.
	Medical Films.		
710	Breathing (the effect of good breathing on health).	1	G.B. Equipments, Ltd.
711	The Blood (its functions and constituents)...	1	G.B. Equipments, Ltd.
712	Circulation (circulatory system of the heart and arteries).	1	G.B. Equipments, Ltd.
713	The Filter (necessity for using pure water)...	1	G.B. Equipments, Ltd.

Addresses

March of Time. Ltd., 2, Dean Street, W.1.
Sound Services, Ltd., Filmicity House, Upper St. Martin's Lane, W.C.2.
Columbia Pictures, Ltd., 139, Wardour Street, London, W.1.
British Oxygen Co., Ltd., North Circular Road, London, N.W.2.
Gaumont British Equipments, Ltd., Tower House, Woodchester, Gloucestershire.
Vacuum Oil Company, Caxton House, London, S.W.1.
Brent Laboratories, Ltd., North Circular Road, London, N.W.2.
Bristol Aeroplane Co., Ltd., 6, Arlington Street, London, S.W.1.
The Ministry of Information, Senate House, Malet Street, W.C.1.
General Film Distributors, Ltd., 127/133, Wardour Street, London, W.1.

(C.A.F.Os. 627/42, 777/42, 964/42, 1024/42 and 1821/42.)

(A.F.Os. 241/42, 772/42, 1256/42 and 2236/42.)

(A.F.Os. 2685/41 and 4614/41 are cancelled.)

(60115) Wt. 8008/2273 8,500 7/42 Hw. G.338/10.

Addresses:

March of Time, Ltd., 2, Dean Street, W.1.

Sound Services, Ltd., Filmicity House, Upper St. Martin's Lane, W.C.2.

Columbia Pictures, Ltd., 139, Wardour Street, London, W.1.

British Oxygen Co., Ltd., North Circular Road, London, N.W.2.

Gaumont British Equipments, Ltd., Tower House, Woodchester, Gloucestershire.

Vacuum Oil Company, Caxton House, London, S.W.1.

Brent Laboratories, Ltd., North Circular Road, London, N.W.2.

Bristol Aeroplane Co., Ltd., 6, Arlington Street, London, S.W.1.

The Ministry of Information, Senate House, Malet Street, W.C.1.

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(C.A.F.Os. 627/42, 777/42, 964/42, 1024/42 and 1821/42.)

(A.F.Os. 241/42, 772/42, 1566/42 and 2238/42.)

(A.F.Os. 2585/41 and 4614/41 are cancelled.)

(96415) Wt. 8008/2272 3,500 7/42 Hw. G.328/16.