

R 29 102
16 JUL 1956

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dated [REDACTED] 85

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BUFFALO TRIALS

18th July 1956

INDOCTRINEE FORCE INSTRUCTION NO. 1

GENERAL

1. Some 250 officers of the Armed Forces of the UNITED KINGDOM, AUSTRALIA AND NEW ZEALAND will participate as indoctrinees in the first of a series of nuclear trials to be carried out in August/September, 1956, at MARALINGA. 177 of these officers will be from Home and overseas Commands of the British Army and 2 from the Royal Navy. They will travel by air.
2. This indoctrinee force will be one of a number of "groups" taking part in the trials and will be referred to in later instructions as the "IF Group".
3. After basic instruction in LONDON or SINGAPORE and detailed briefing at MARALINGA on the nature and conduct of the trials, indoctrinees will be exposed at a safe distance to the flash, thermal and blast effects of a nuclear explosion. They will make a conducted tour of the firing area and of the various items of Service equipment, vehicles, structures etc exposed for trials purposes, both before and after firing.

AIM

4. To enable these selected officers:
 - (a) To experience the effects of a nuclear explosion
 - (b) To examine the effects of such explosion on the ground and on weapons and equipment
 - (c) To pass on their experience to other members of the Armed Forces at the conclusion of the trial.

METHOD

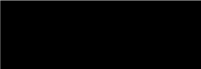
5. ASSEMBLY

- (a) In the UNITED KINGDOM
 - (i) Officers attending from Home Commands, BAOR, WEST AFRICA, MALTA and GIBRALTAR will report to No 1 Army Air Transit Unit, 209 Harrow Road, Paddington, London W2, not later than 1600 hours Thursday, 9th August, 1956. There they will receive their passports and air travel tickets and have their medical certificates and the other documents detailed in para 14 below checked. They will also write in the book provided, their addresses and telephone numbers in case changes in travel arrangements prove necessary.
 - (ii) Officers from BAOR, WEST AFRICA, MALTA and GIBRALTAR will be required to show their AFs'N 5133.
 - (iii) Officers will be responsible for making their own arrangements for accommodation in the LONDON area from the time of arrival until departure for AUSTRALIA.
- (b) In SINGAPORE

All officers except those covered by sub-para (a) above and the officer from the CARIBBEAN area will assemble and be accommodated under arrangements made by GHQ FARELF. They will report in SINGAPORE not later than 18th August, 1956. GHQ FARELF will notify all concerned (copy to War Office MTL) of the complete assembly arrangements including arrangements for the preliminary instruction detailed in para 6(b) below.

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6. PRELIMINARY INSTRUCTION

(a) In LONDON

(i) A two day period of preliminary instruction will be held in the Recreation Room, Wellington Barracks, LONDON, on Friday and Saturday, 10th and 11th August, 1956. This will be attended by all officers assembling in London. Syllabus is attached as Annexure "A".

(ii) Dress - Service Dress or Battle Dress

(b) In SINGAPORE

Preliminary instruction will be given to personnel attending from Overseas Commands, less those from BAOR, GIBRALTAR, MALTA, WEST AFRICA and the CARIBBEAN Area at SINGAPORE on 19th and 20th August, 1956, under arrangements made by GHQ FARELF and the Chief Instructor, Joint School of Chemical Warfare

The latter will arrange all further details with GHQ FARELF, through the War Office (MT11). A syllabus on similar lines to that attached as Annexure "A" will be sent to GHQ FARELF by [redacted] through the War Office (MT11), for reproduction and issue to all concerned.

7. MOVEMENT OUTWARD

(a) Officers assembling in UNITED KINGDOM

The bulk of these will be despatched either by BOAC/QUANTAS scheduled flights leaving LONDON between 12th and 19th August to SYDNEY or by a Hastings aircraft leaving LONDON on 14th August direct for MARALINGA. Those routed via SYDNEY will be moved by local charter aircraft to MARALINGA. A few officers will be moved by scheduled trooping flights to SINGAPORE. Thence they will move to MARALINGA with officers assembling in SINGAPORE

(b) Officers Assembling in SINGAPORE

These officers will be despatched from SINGAPORE on a charter aircraft direct to MARALINGA

(c) Full arrangements for outward movement are given in Annexures "B" and "C" attached.

8. PROGRAMME IN MARALINGA

(a) Officers will have a rest period of from one to five days after arrival at MARALINGA.

(b) It is intended that the programme of work should be as follows:-

D - 3: Rehearsal and pre-firing tour of area and equipment
D - 2) Instruction in the nature and conduct of the trials
D - 1) Witness explosion
D Day: First half of IF Group tour firing area
D + 1: Second half of IF Group tour firing area
D + 2:

(c) In order to help in the assessment of the value of indoctrination during trials of this nature, officers will be asked to complete an individual questionnaire at MARALINGA before 'D' Day and a follow-up questionnaire later.

(d) Whilst theoretically some officers could be moved out of MARALINGA from D + 2 onwards, owing to the uncertainty of the date of firing, a few days delay is expected before movement can start.



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9. MOVEMENT ON RETURN

(a) Officers originally assembling in UNITED KINGDOM

- (i) The bulk of these officers will be lifted by local charter aircraft from MARALINGA to the SYDNEY area to await seats on scheduled BOAC/QUANTAS aircraft to final destination
- (ii) One Hastings load will be flown direct from MARALINGA to the UNITED KINGDOM.

(b) Officers originally assembling in SINGAPORE

All these officers will be moved in the same way as those in para 9(a)(i) above.

ADMINISTRATION

10. DRESS

(a) During Travel

- (i) By civilian airlines - civilian clothes
- (ii) By Service aircraft - uniform - (Service dress or Battle Dress).
- (iii) Officers proceeding to Australia by Service aircraft may return by civilian airlines and vice versa, therefore, both uniform and civilian clothes are required.

(b) In MARALINGA Area

- (i) Two suits of Australian Army Battle Dress per officer will be issued as working dress on arrival at GUNDULPH Camp. Great coats will also be provided.
- (ii) For the examination of effects after the explosion special protective clothing will be provided.
- (iii) Due to shortage of water for laundry purposes a plentiful supply of socks, shirts and underwear should be taken.

(c) In SYDNEY Area

- (i) Due to the limitation on weight little formal dress can be taken but a lounge suit will be required.
- (ii) Nearly all officers will be staying either on the outward or return journey with the Australian Army. Those in possession will wear service dress whilst attached, others will wear British battle dress.

EQUIPMENT

11. (a) Only essential equipment will be taken. This is:-

- (i) web belt,
- (ii) respirator anti-gas, light MK6
- (iii) water bottle,
- (iv) small pack (for pack meals)
- (v) binoculars

- (b) The respirator must be serviceable and properly fitted in accordance with Section 11 of "Gas Training 1951", War Office Code No.8511 paras 3 to 6 inclusive.



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- [REDACTED]
- (c) Officers who require to wear spectacles at all times will be in possession of Service spectacles with flattened side members designed for wear with respirators. Instructions are contained in Section 11 of "Gas Training 1951".

12. BAGGAGE

- (a) Baggage limit for all personnel regardless of method of travel will be restricted to 44 pounds, except as especially authorised at para 23 below.
- (b) Articles such as respirator, binoculars, trench coat etc will not be weighed but a brief case or small bag retained by the individual while on the aircraft may be weighed and counted against the limit of 44 pounds.
- (c) Officers are strongly advised to carry with them two bags, one to be retained during the flight with such items as shaving kit, towel, slippers, etc plus a change of socks, shirt etc.

13. PASSPORTS

- (a) Passports of all officers of the Indoctrinee Force from the United Kingdom, BAOR, GIBRALTAR, MALTA and WEST AFRICA, will be forwarded to the War Office (PAL Family Passages) by not later than 18th July, 1956.
- (b) The requisite visas will be obtained by the War Office, renewals will be made if required and passports will be re-issued to officers on arrival at No 1 Army Air Transit Unit.
- (c) Passport arrangements for overseas Commands (less BAOR, GIBRALTAR, MALTA and WEST AFRICA) will be under Command arrangements.

14. MEDICAL

- (a) International Certificates of Vaccination/Inoculation
- (i) All officers of the Indoctrinee Force will be in possession of valid International Certificates of Vaccination/Inoculation against:-
- | | |
|---------------------|--|
| <u>Smallpox</u> | (F Med 101) dated not less than eight days (except in the case of re-vaccination when valid immediately) nor more than two years before expected date of departure. |
| <u>Cholera</u> | (F Med 102) dated not less than six days (except in the case of re-inoculation within six months of previous inoculation when valid immediately) nor more than two months before expected date of departure. |
| <u>Yellow Fever</u> | (F Med 103) dated not less than 10 days nor more than five years and eight months before expected date of departure. |
- (ii) The times given will ensure that re-vaccination/inoculation is not required for the return journey.
- (iii) All immunization except against Yellow Fever can be carried out at the nearest medical centre. Immunization against Yellow Fever is carried out at specially authorized centres addresses of which may be obtained from the nearest medical headquarters.
- (b) TABT
- All personnel will be fully protected by TABT prior to leaving permanent duty stations. Appropriate entries must be shown in AB 439.
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(c) Blood Count and Chest X-ray

In the officers' own interest they will be subjected to a blood count as for workers with radioactive substances plus a chest X-ray. Both to be completed prior to leaving permanent duty stations.

(d) Medical Examination

All officers not now serving in the tropics will be medically examined for fitness to serve in the tropics and issued with certificates of fitness before leaving permanent duty stations.

(e) Dental Treatment

All personnel will have any necessary dental treatment completed prior to leaving permanent duty stations.

15. ACCOMMODATION

(a) At MARALINGA

Officers will be accommodated during their stay in the MARALINGA area in a tented camp to be erected by the Australian Army at GUNDULPH, 11 miles North of WATSON near MARALINGA, about 600 miles North West of ADELAIDE. Conditions will be austere and water in short supply. This camp will be run by the Australian Army who will provide bedding and camp equipment.

(b) At SYDNEY

Outward journey - Those officers who do not fly direct from UK or SINGAPORE into MARALINGA will be accommodated by the Australian Army in SYDNEY except for seven senior officers who will be accommodated in a Civilian Club.

Return journey - All officers except the thirtythree returning to UK direct from MARALINGA on the HASTINGS will be accommodated in SYDNEY. Owing to the uncertainty of the date of firing, it will probably be a month after 'D' day before the airlines can move the last officer out of SYDNEY. Waiting time in SYDNEY is likely to average 14 days. The Australian Army authorities have at considerable inconvenience made special arrangements to accommodate the bulk of the Indoctrinee Force with Army units for the period required whatever that period may turn out to be. It is hoped to accommodate seven senior officers, not below the rank of Colonel at SYDNEY clubs. All details will be given out in due course.

16. DISCIPLINE

(a) For purposes of discipline, all military officers from the British Army comprising the Indoctrinee Force will be attached to the Royal Air Force under the provisions of Section 179A of the Air Force Act and Section 179A of the Army Act and thus subject to the Air Force Act.

(b) In order to effect such attachment a disposal order, an example of which is shown below, will be published by Headquarters, Eastern Command and GHQ F A R E L F immediately prior to departure of the Indoctrinee Force from London and Singapore. A copy of the order will be forwarded to Headquarters Bomber Command, Royal Air Force.

"The personnel detailed below (individual names to be inserted) will serve with the BUFFALO TASK FORCE and whilst so serving will be subject to the provisions of Section 179A of the Air Force Act and Section 179A of the Army Act".

(c) Headquarters, Bomber Command, Royal Air Force, will publish a reciprocal attachment order upon receipt of the orders mentioned in sub para (b) above.

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(d) Nominal rolls to be used for the purpose of the orders will be forwarded by the War Office (MT11) to Headquarters, Eastern Command and GHQ FARELF.

17. WEAPONS

No weapons or ammunition will be taken to Australia.

18. PAY AND ALLOWANCES

See Annexure 'D' attached.

19. POSTAL

(a) Postal address for the Indoctrinee Force will be:-

Rank, Name,
IF Group,
British Forces Post Office 151.

(b) British Forces Post Office 151 must be written in full to avoid possible confusion with BAOR.

20. NOMINAL ROLL - INDOCTRINEES AND RESERVES

Nominal roll of all indoctrinees and reserves, by Commands, showing ultimate destinations is attached as Annexure "E". Officers who become casualties after arrival in LONDON or SINGAPORE will be replaced by reserves nominated by the War Office (MT11) and GHQ FARELF respectively.

COMMAND AND CONTROL

21. BUFFALO TRIALS EXECUTIVE STAFF

Trials Director: [REDACTED]
Trials Deputy Director: [REDACTED]
Trials Co-ordinator: [REDACTED]
Co-ordinator of Indoctrinee Force: [REDACTED]

22. Personnel assembling at SINGAPORE

These officers will be put under command, for the duration of their stay in SINGAPORE and whilst en route to KARALINGA, of a senior indoctrinee to be nominated by GOC-in-C FARELF. This officer will be assisted by [REDACTED], CI of the JSCW.

23. Personnel assembling in LONDON

These officers will be under the command of [REDACTED], DSO from 9th August, 1956 until return to permanent duty stations.

The Commander will be assisted by:-

[REDACTED] (GSO 1 MT11) GS
[REDACTED] (GSO 1 GS(W)11) GS and Liaison with AWRE Trials Staff
GS
Adm
Mov
Pay/Finance

The above officers will be allowed an additional ten pounds excess baggage to cover the carriage of essential papers/documents etc related to their special duties.



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14. Command and Control in AUSTRALIA

[REDACTED] assisted by the staff detailed in para 23 above will exercise command over the whole Indoctrinee Force as a group on arrival in AUSTRALIA.

25. Overall Command in AUSTRALIA

The Indoctrinee Force will be under the overall command of the BUFFALO TASK FORCE Commander, [REDACTED] RAF who is in charge of all military groups.

26. Conducting Officers

Certain Officers from amongst the indoctrinees will be appointed as Conducting Officers. They will be selected from those with some scientific background and will act as leaders during the trials.

SECURITY

27. Positive Vetting

All officers comprising the Indoctrinee Force will be positive vetted prior to emplaning.

28. Classified Documents

Owing to the difficulty of safeguarding classified documents whilst in the MARALINGA area, the minimum number of documents of high security grading will be taken.

29. Cameras

Cameras may be taken for use during the journey to and from Australia but must be handed in immediately on arrival at GUNDULPH Camp.

30. Regulations and Instructions

Whilst in the MARALINGA area officers comprising the Indoctrinee Force will comply with all security regulations and instructions issued by the Trials Director.

[REDACTED]

[REDACTED]

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BUFFALO TRIALS
PROGRAMME OF
PRELIMINARY INSTRUCTION OF INDOCTRINEES

Annexure 'A' to Buffalo Trials
Indoctrinee Instruction No.1
dated 16 July, 1956.

10th and 11th August 1956

WELLINGTON BARRACKS, LONDON

Friday 10th August.

Serial	Time	Subject	Speaker/Remarks
1	0930 - 0945	Opening address	[Redacted]
2	0945 - 1000	Administrative Points	[Redacted]
3	1000 - 1010	Introduction	[Redacted]
4	1010 - 1040	General Conduct of the Trial	[Redacted] W
5	1040 - 1115	Coffee break	[Redacted]
6	1115 - 1140	Film. "The Atom Strikes" (C5339)	[Redacted]
7	1145 - 1230	Lecture. Characteristics of Nuclear Explosions	[Redacted]
8	1235 - 1255	Film. Atomic Support for the Soldier (55494)	[Redacted]
9	1255 - 1400	Lunch Break	Officers will make own arrangements
10	1400 - 1445	Lecture. Surface and Sub-surface explosions.	[Redacted]
11	1450 - 1520	Films. "Effects of Atomic Explosions" (C5459) Pathe News Reel	[Redacted]
12	1525 - 1605	Lecture. Protection - Immediate Effects	[Redacted]
13	1610 - 1650	Lecture. Protection - Residual Effects	[Redacted]
14	1655 - 1730	Film. Effects of atomic weapons against troops in the field.	[Redacted]

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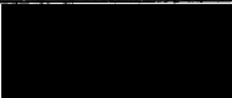
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Annexure 'A' (Contd)

Saturday 11th August.

Serial	Time	Subject	Speaker/Remarks
15	0930 - 1015	Lecture. Radiac Instruments	[REDACTED]
16	1020 - 1100	Lecture. Monitoring	
17	1130 - 1215	Lecture. Decontamination	
18	1220 - 1250	Films. Operation "Crossroads" Operation "Totem" }	



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Annexure 'B'
to Buffalo Trials
Indoctrines
Instruction No. 1
dated 16 July, 1956.

Movement to and from AUSTRALIA

Method of Movement - Outward Journey

1. From UK and BAOR

- (a) Personnel from BAOR will travel to UK by the normal surface route and will be despatched in time to report to No. 1 Army Air Transit Unit by not later than 1600 hrs 9th August 1956.
- (b) The UK and BAOR contingent totalling 135 will travel from UK-AUSTRALIA by the following means -
- (i) RAF Transport Command Hastings aircraft departing UK approx 14 August 1956 and arriving MARALINGA approx 21 August 1956 33 passengers.
- (ii) BOAC Tourist Class scheduled services to SYDNEY as under:-

<u>Date ex LONDON</u>	<u>Date of arrival at SYDNEY</u>	<u>No of Passengers</u>
12 Aug	16 Aug	11
13 "	17 "	50
16 "	20 "	15
17 "	21 "	10
19 "	23 "	10
	Total:	<u>96</u>

Onward movements from SYDNEY to MARALINGA for these officers will be by two charter aircraft, one leaving pm 20 August 1956 and one pm 23 August 1956.

- (iii) Air Trooping service to SINGAPORE on date to be notified later. For onward movement SINGAPORE-AUSTRALIA see para 6. No of passengers 6.

- (c) Detailed instructions for the above moves will be issued separately on arrival in London or Singapore.

2. From GIBRALTAR, MALTA and WEST AFRICA

Personnel will be despatched under local arrangements to UK by the normal air trooping service in time to report to No 1 Army Air Transit Unit by not later than 1600 hrs 9th August 1956. They will then be moved to SINGAPORE by air trooping (date to be notified later) and onwards to AUSTRALIA as in para 6 below. No of passengers 3.

3. From MELB

Personnel will be moved under MELB arrangements to BAHREIN and thence to SINGAPORE by air trooping. Flight number and date will be notified later. For movement SINGAPORE to AUSTRALIA see para 6. No of passengers 12.

4. From EAST AFRICA

Personnel will travel from NAIROBI to SINGAPORE by civil commercial services to arrive SINGAPORE by 18 August 1956. GHQ EAST AFRICA will be responsible for booking tourist class passages through the local BOAC office by the most economical route requesting that the cost be charged to the War Office through BOAC LONDON. For movement SINGAPORE to AUSTRALIA see para 6. No of passengers 2.

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5. Personnel from UKSLS Staffs

Personnel from UKSLS staffs, ie, one each from PRETORIA, SALISBURY and KARACHI, will travel by civil commercial services to SINGAPORE to arrive by 18 August. Bookings will be made locally with BOAC for tourist class passages by the most economical route, with the request that the cost be charged to the War Office through BOAC LONDON. For movement from SINGAPORE to AUSTRALIA see para 6. No of passengers 3.

6. From FARELF

(a) Personnel will be concentrated at SINGAPORE under FARELF arrangements, No of passengers 20.

(b) A chartered DC4 aircraft carrying 46 passengers will depart SINGAPORE 21 August 1956. It will go direct to MARALINGA arriving 22 Aug. Passengers carried will be as under -

from FARELF	-	20	
MELF	-	12	
UK	-	6	
GIBRALTAR	-	1	Total 46
MALTA	-	1	
WEST AFRICA	-	1	
EAST AFRICA	-	2	
UKSLS Staffs	-	3	

7. From CARIBBEAN

The officer will travel by civil commercial air services from KINGSTON to SYDNEY via SAN FRANCISCO. HQ CARIBBEAN Area will book a return tourist class passage locally through BOAC to ensure arrival at SYDNEY not later than 23 August 1956. The cost will be chargeable to the War Office through BOAC LONDON.

Notification of Emplanements

8. Despatching authorities will signal names of passengers, service on which emplaned, and estimated arrival date as follows:-

War Office to Army Melbourne (for Q Mov)	in respect of personnel in para 1(b)(i)
" " to " " " " " " " "	" " " " " " " 1(b)(ii)
" " to FARELF	" " " " " " " 1(b)(iii)
	& 2
GHQ MELF to FARELF	" " " " " " " 3
GHQ EAST AFRICA to FARELF	" " " " " " " 4
UKSLS Staffs to FARELF	" " " " " " " 5
HQ CARIBBEAN Area to Army Melbourne (for Q Mov)	" " " " " " " 7

Method of Movement - Return Journey

9. (a) UK-BAOR

- (i) 33 passengers by RAF Transport Command Hastings aircraft direct from MARALINGA to UK.
- (ii) 102 passengers by BOAC tourist service SYDNEY to UK.
- (iii) BAOR personnel will return from UK to BAOR by normal surface route.

(b) GIBRALTAR

By BOAC tourist service SYDNEY to UK and thence by air trooping to GIBRALTAR.



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(c) MALTA, WEST AFRICA, EAST AFRICA, UKSIS Staffs and CARIBBEAN

By commercial tourist air services from SYDNEY direct to destination.

(d) MELF

BOAC tourist service to SINGAPORE, thence by air trooping to BAHREIN and onward under MELF arrangements.

(e) FARELF

BOAC tourist service to SINGAPORE and onwards under FARELF arrangements.

10. Except for 9(c) these arrangements are provisional only and are subject to alteration nearer the time of return in the light of transport facilities available.

Passports

11. Instructions regarding the provision of passports have already been issued to all Commands vide WCM 57/Misc/8858(MT11) dated 28 June 1956 to Home Commands, Troopers Signal 00411/MT11 dated 220900Z June 1956 to BAQR, and Troopers signal 00187/MT 11 dated 14 June 1956 to all other addressees.

12. Air routes to AUSTRALIA may involve passengers calling at some or all of the following countries where tourist visas are required. Instructions for obtaining appropriate visas are contained in para 13 of these instructions.

SIAM (for air trooping flights only)
INDONESIA
EGYPT (in the event of nightstops only)

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Annexure 'C' to Buffalo Trials
Indoctrinee Force Instruction No. 1
dated 16 July, 1956.

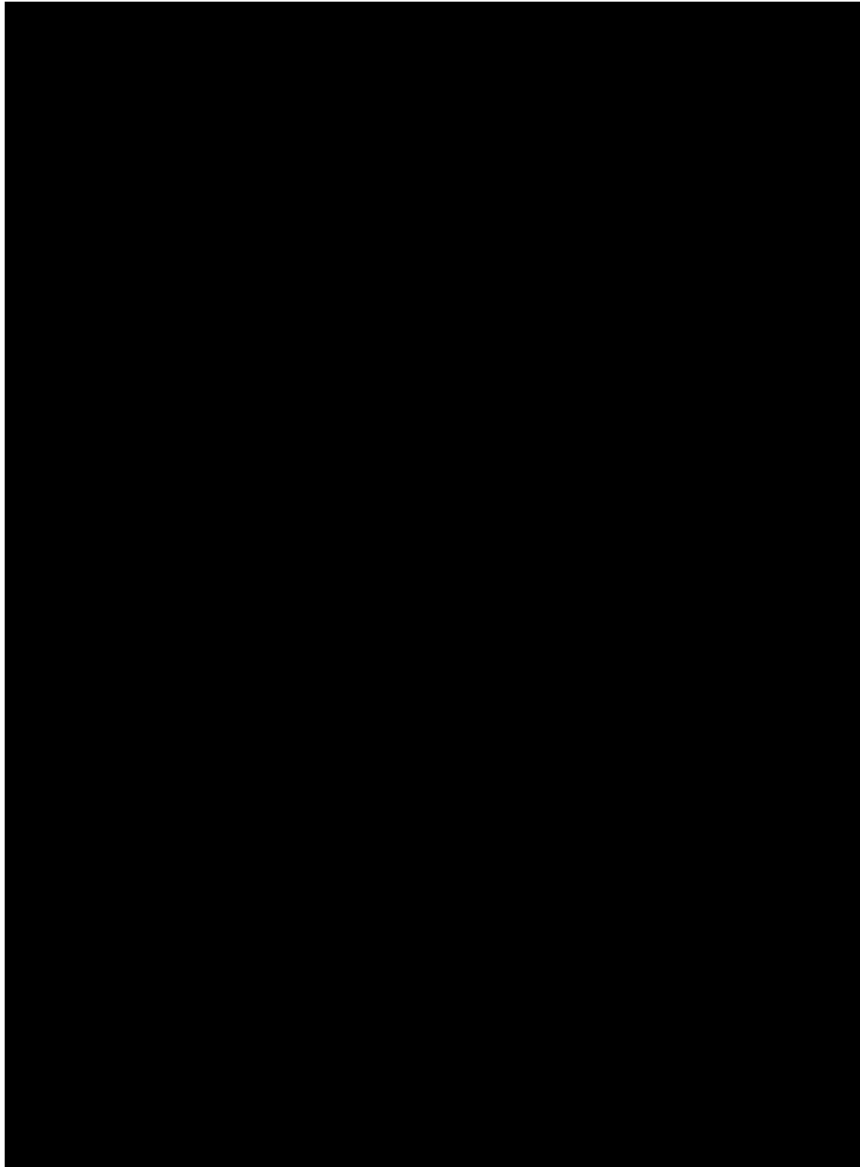
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13th August, 1956 - BOLO

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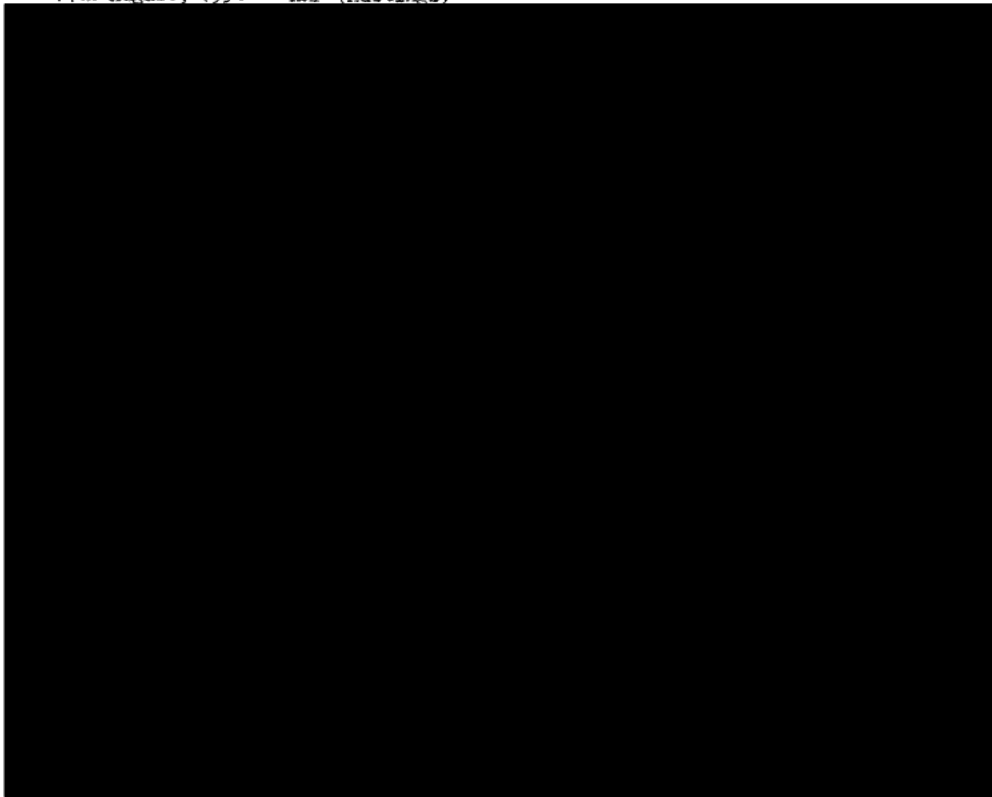


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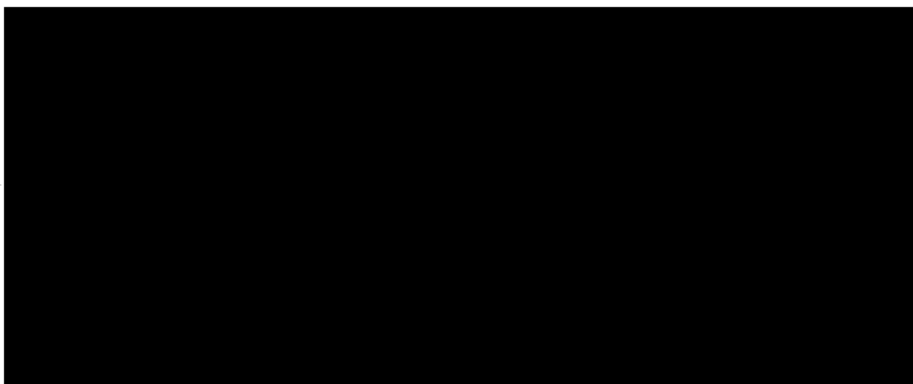
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14th August, 1956 - R&F (Hastings)

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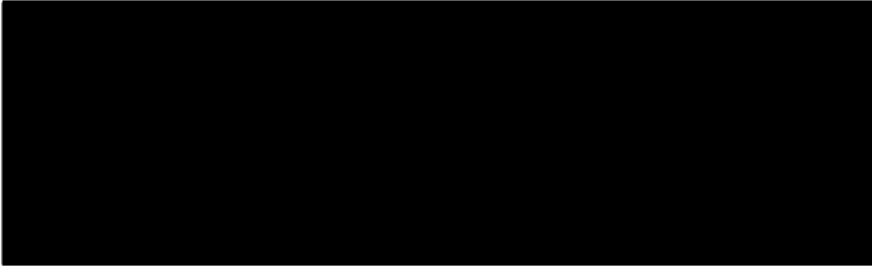


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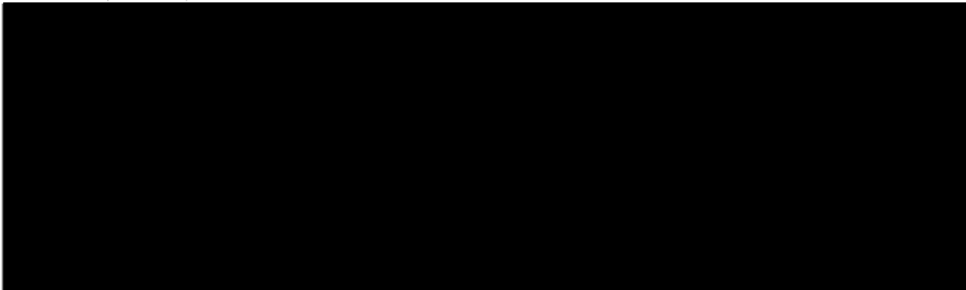
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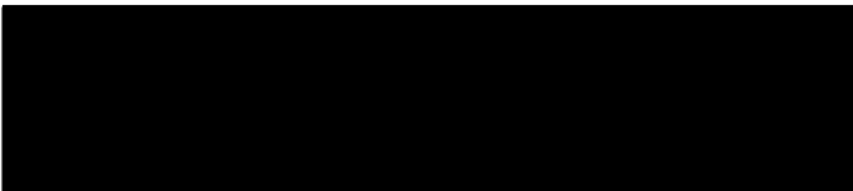
17th August, 1956, - BOAC



19th August, 1956, - BOAC



Air Trooping Service - "A" (Date to be notified).



Air Trooping Service - "B" (Date to be notified)

