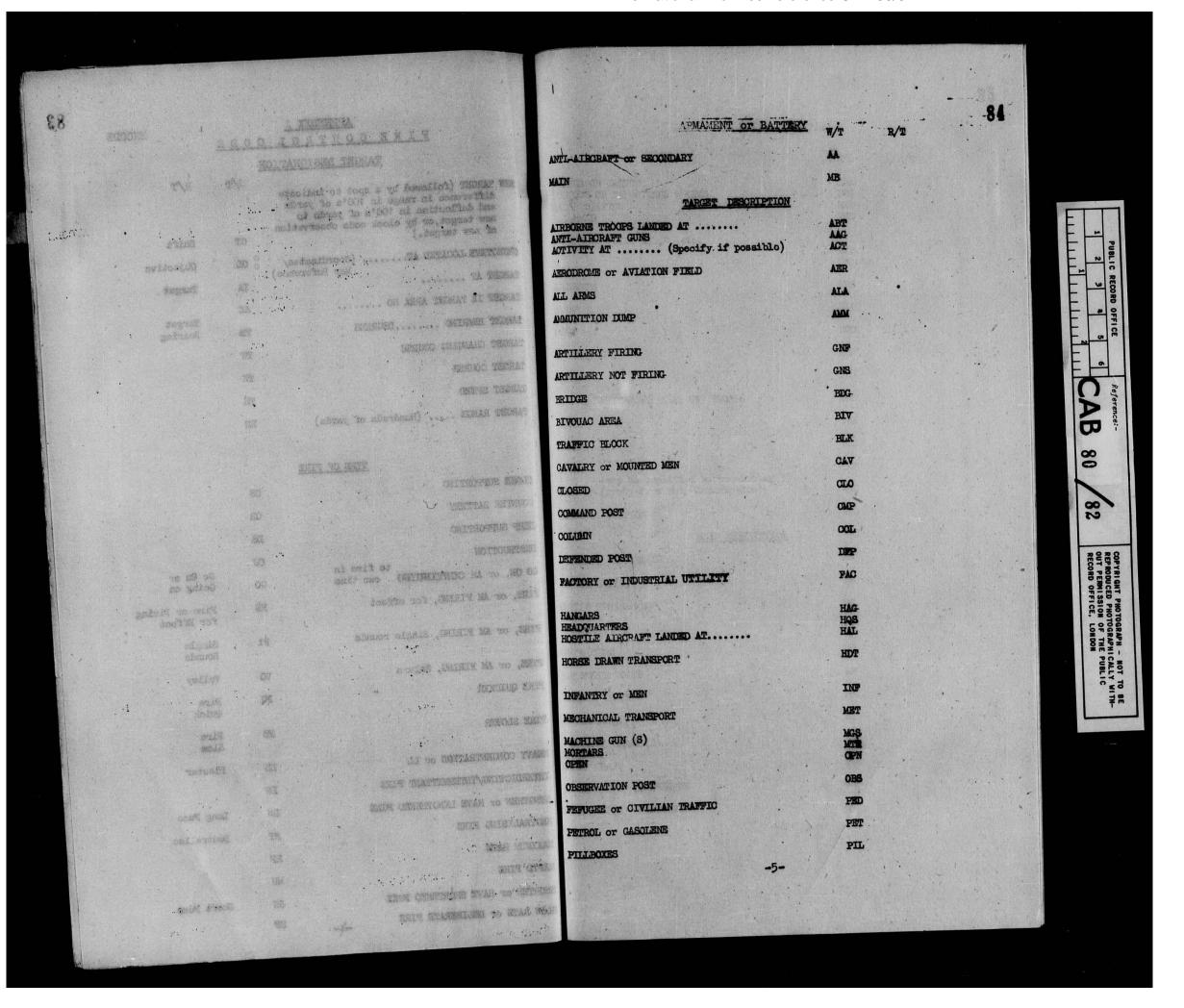
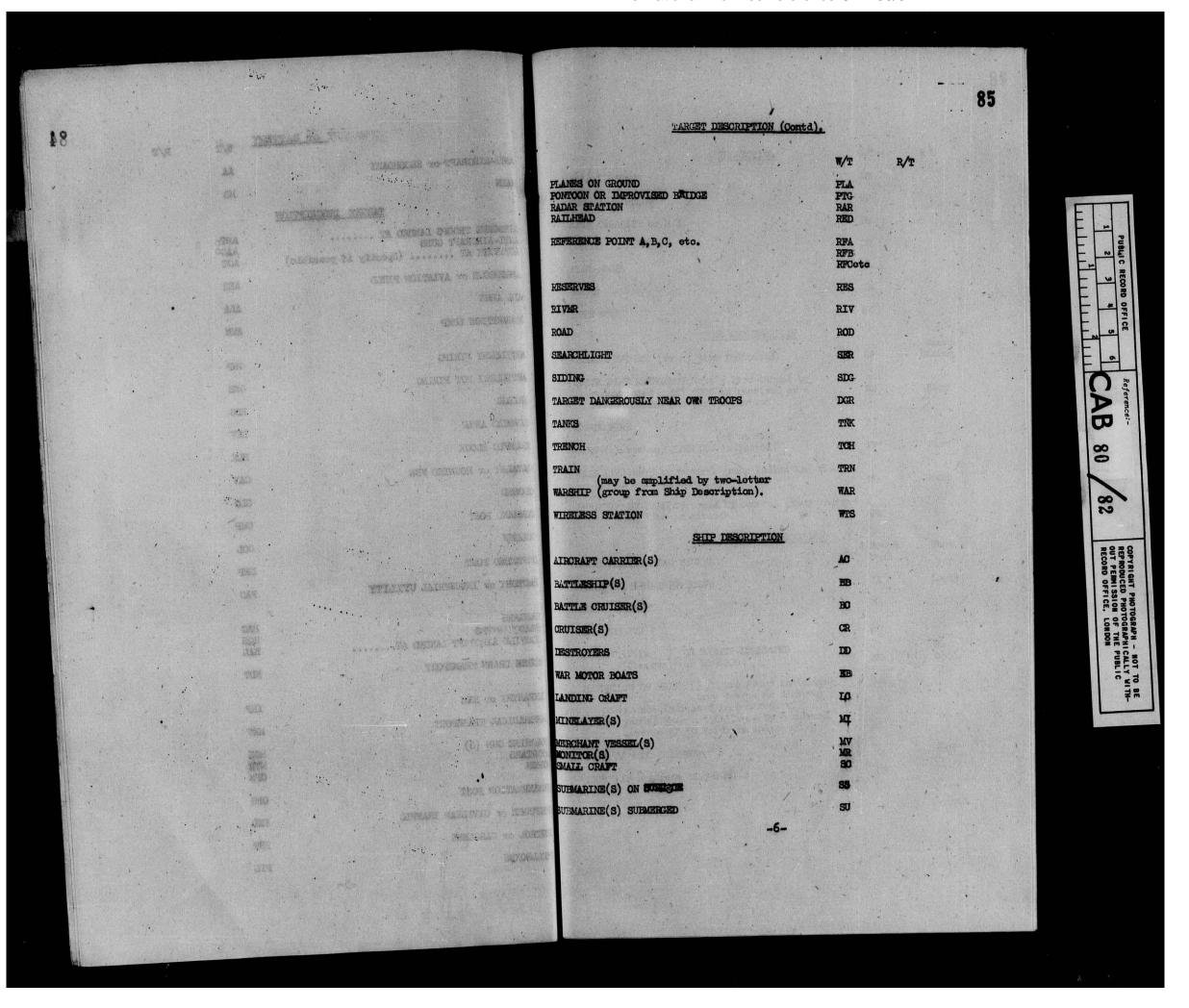
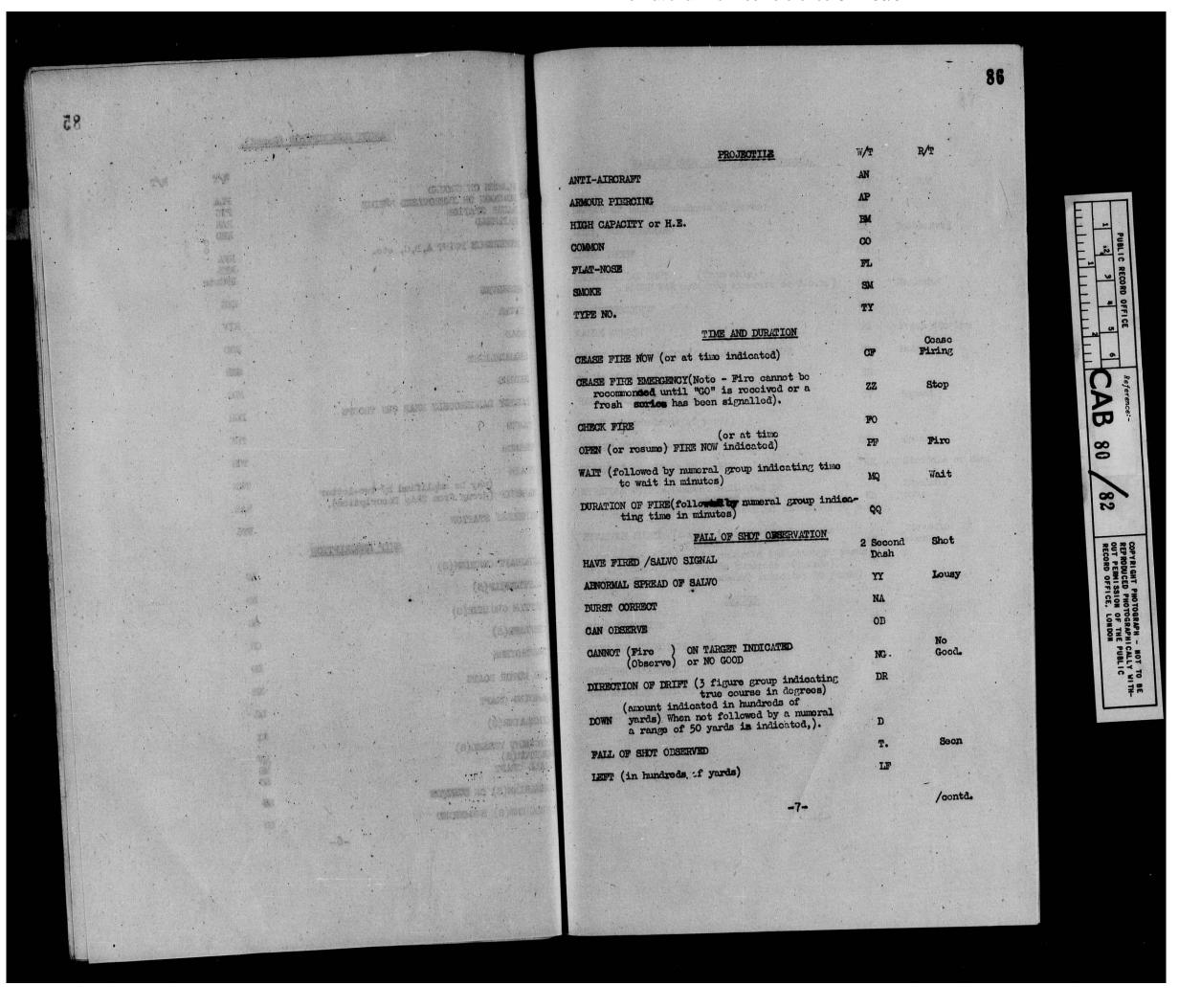
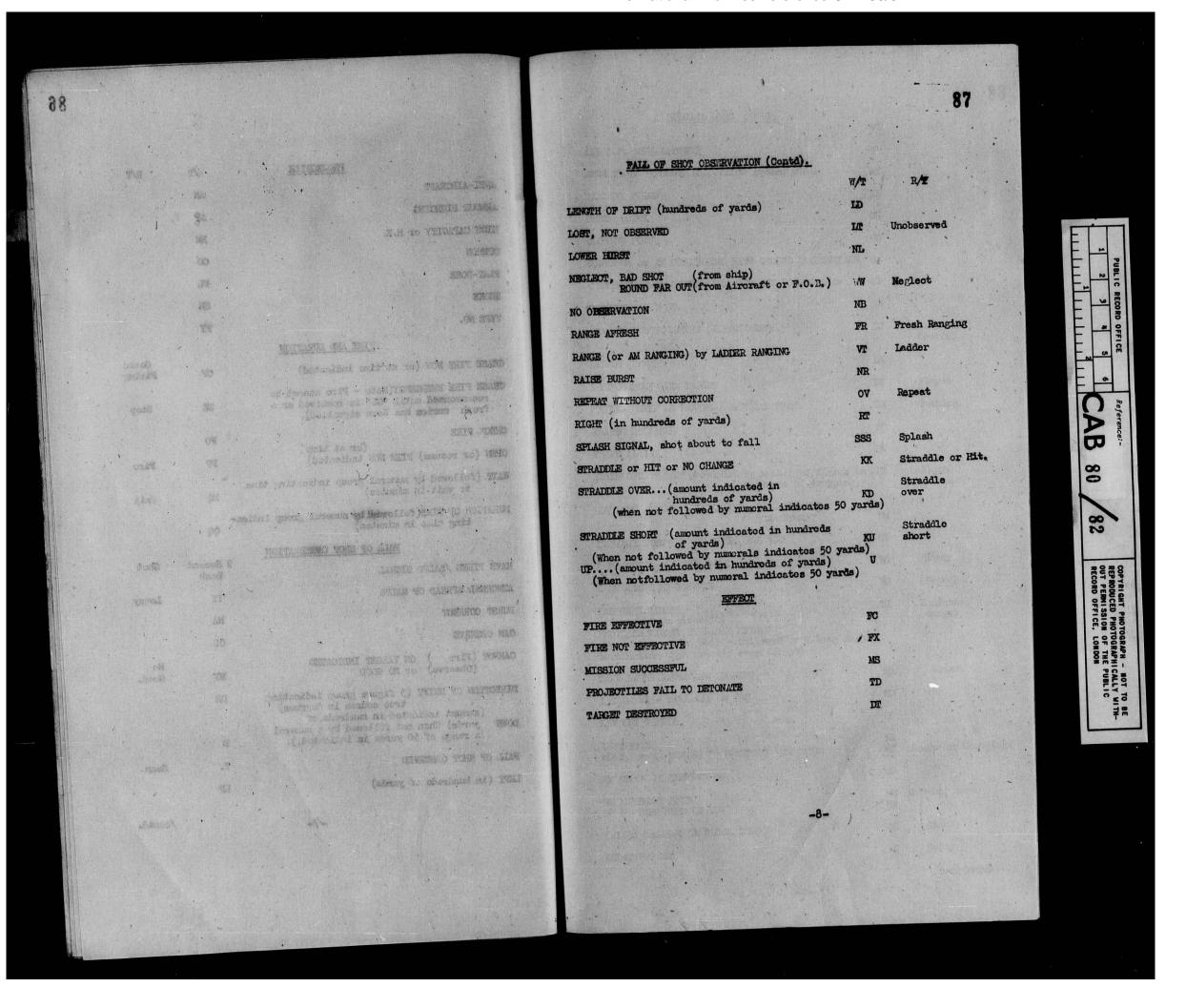


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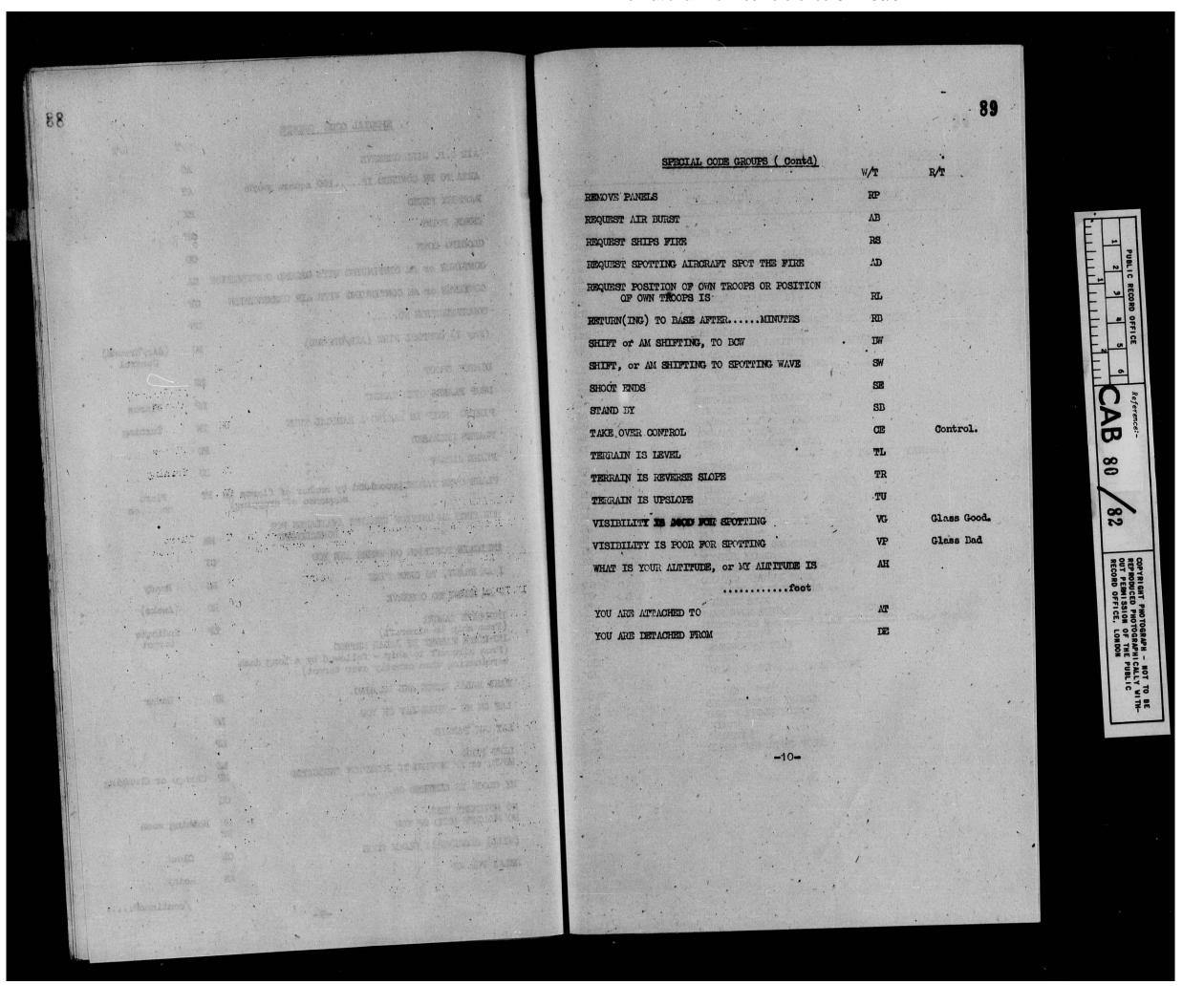


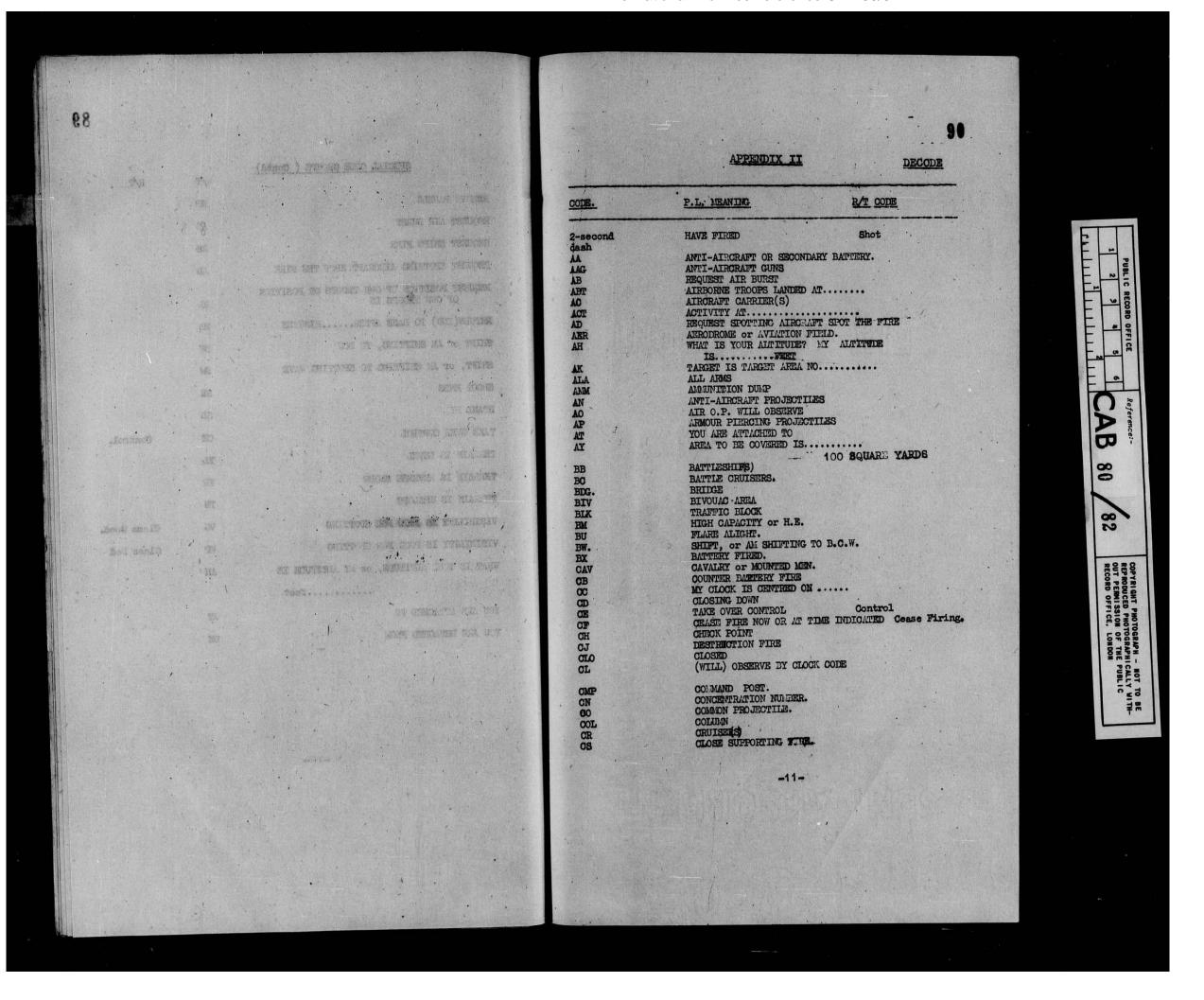


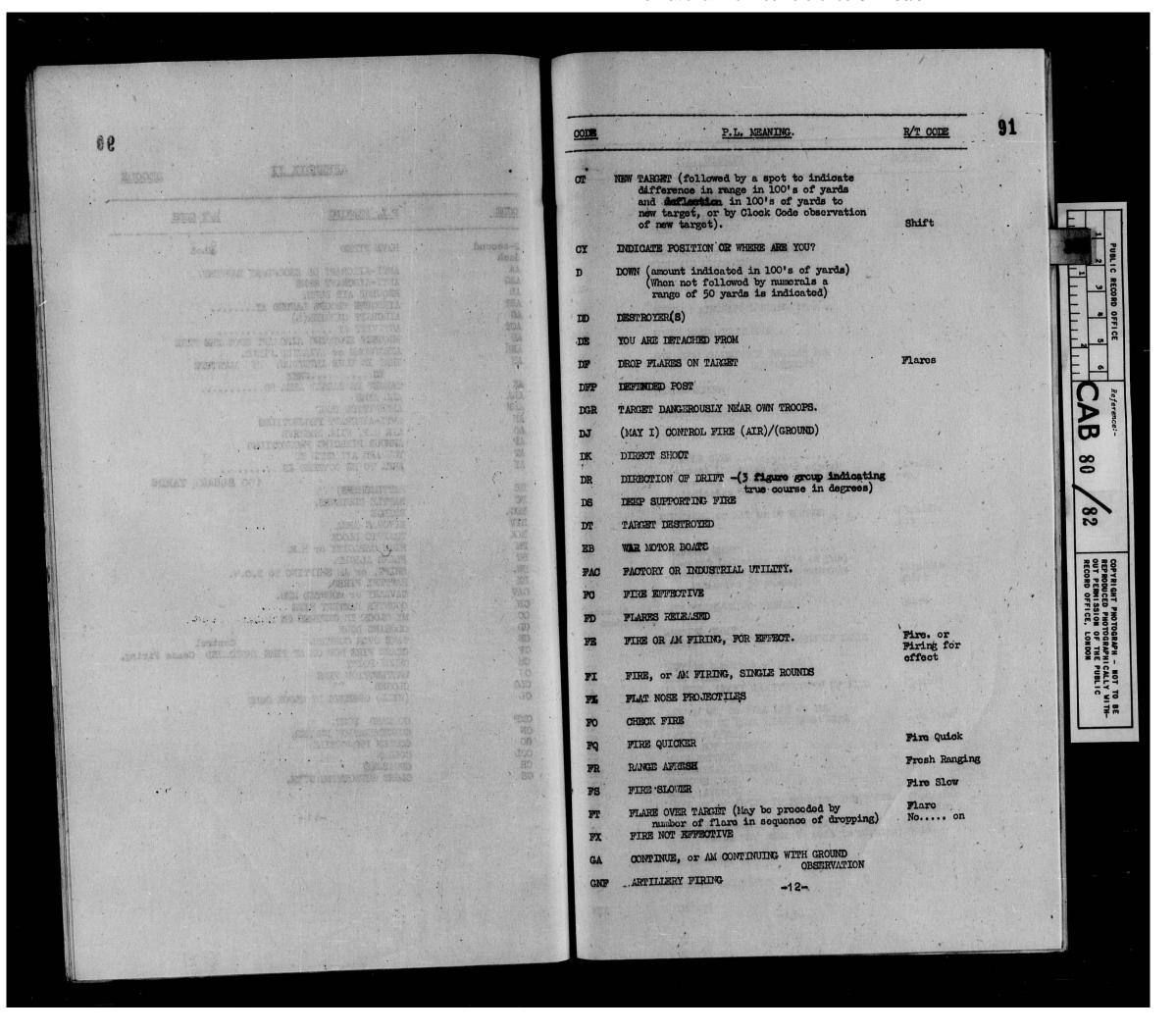


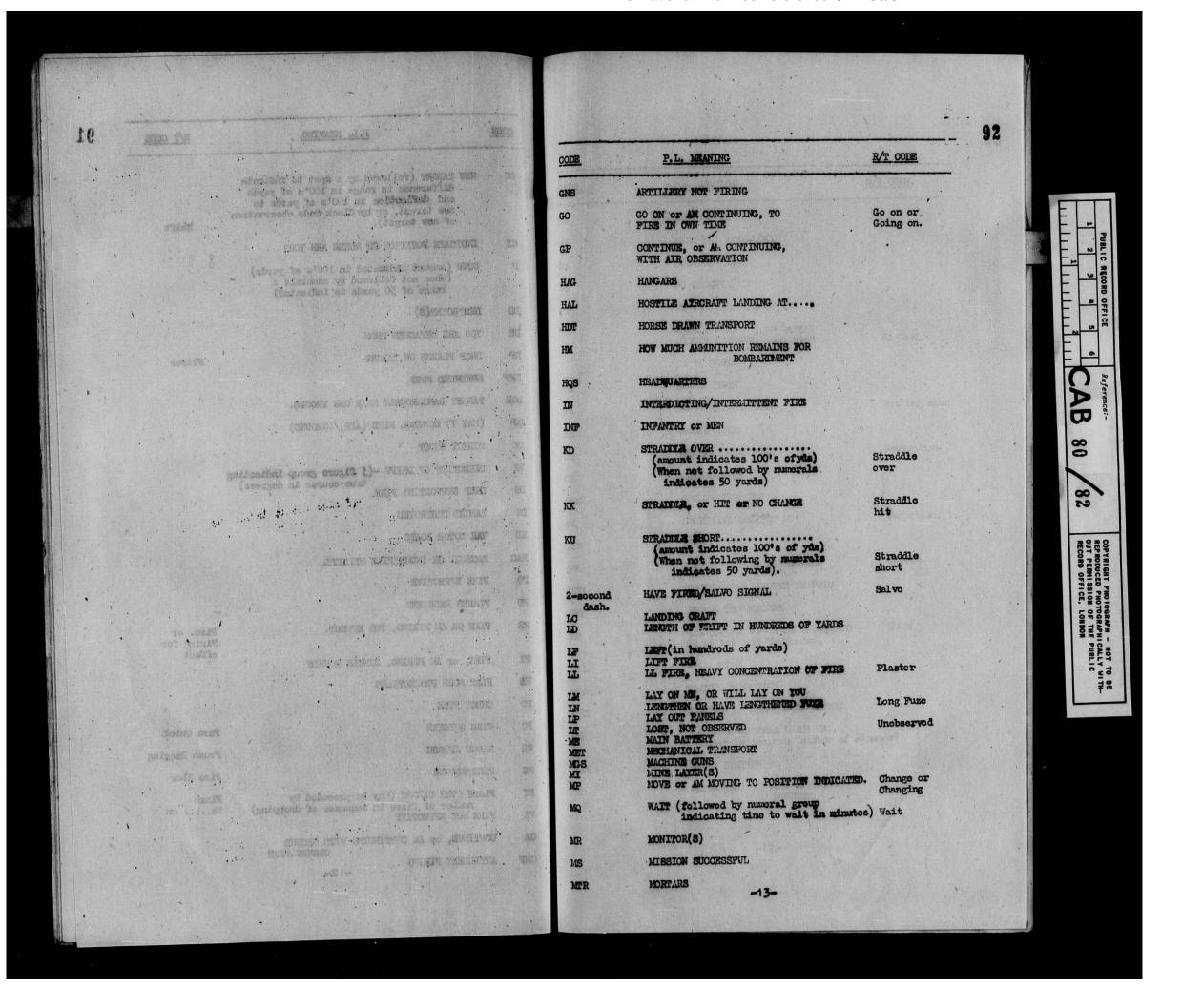


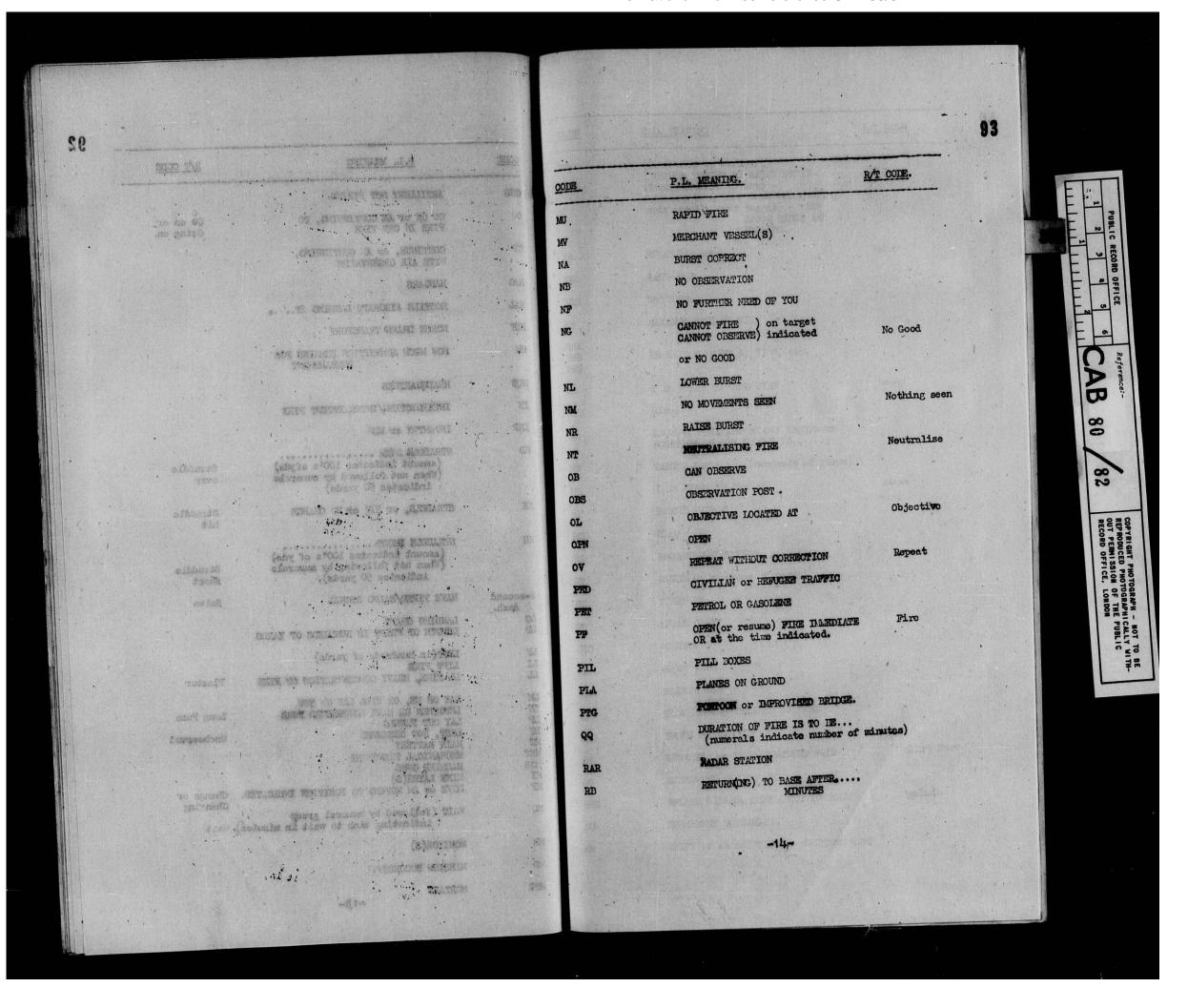
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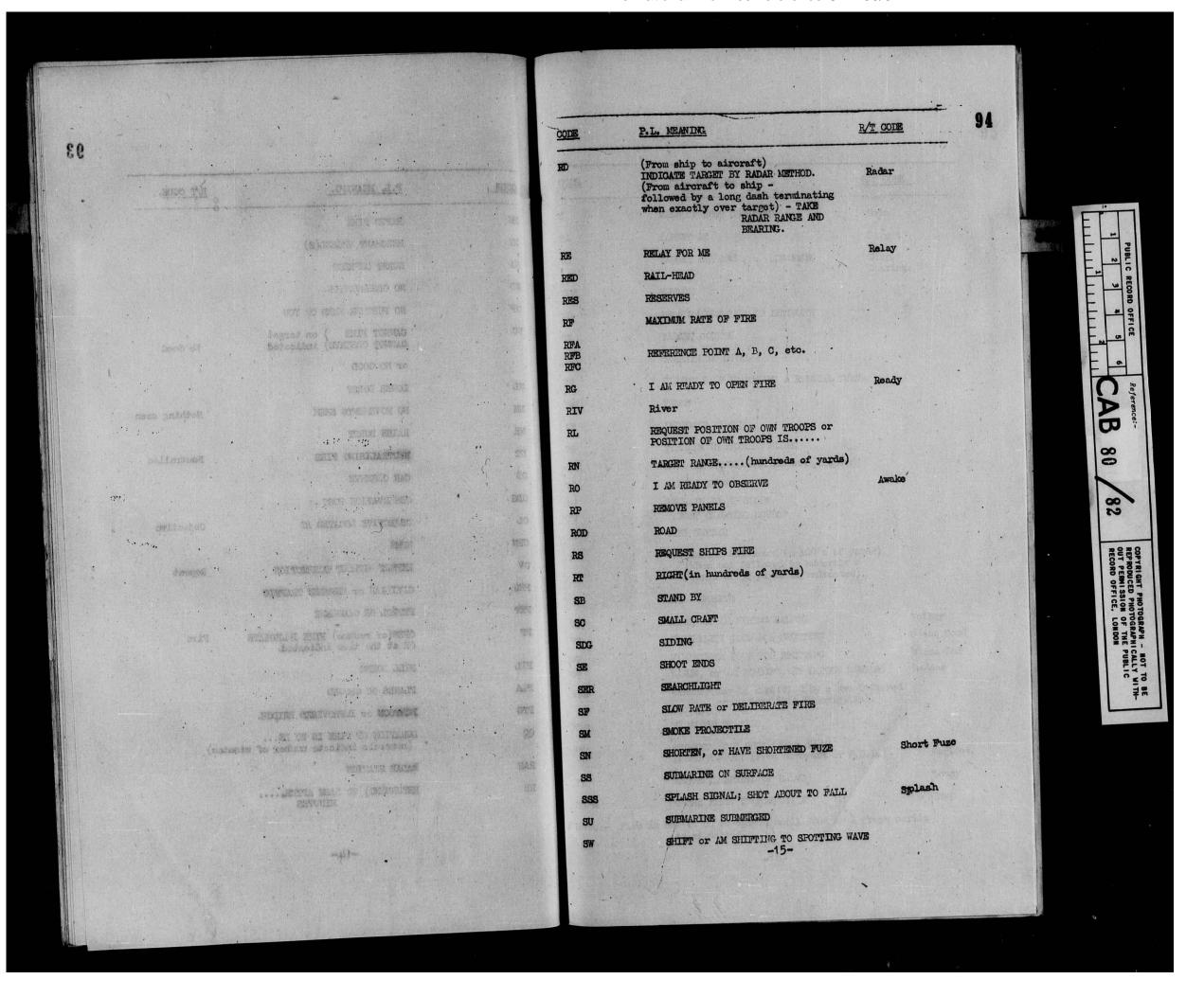


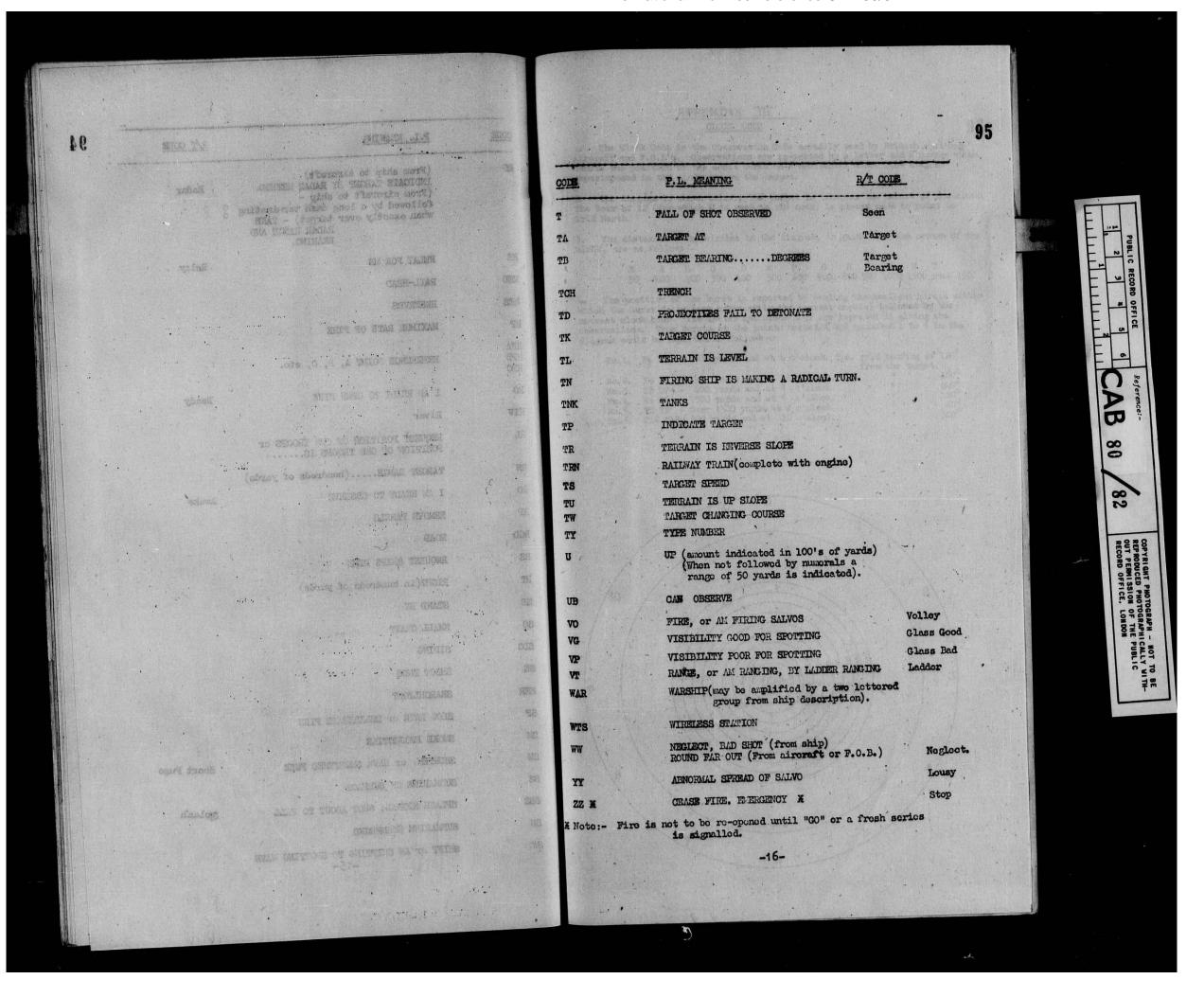


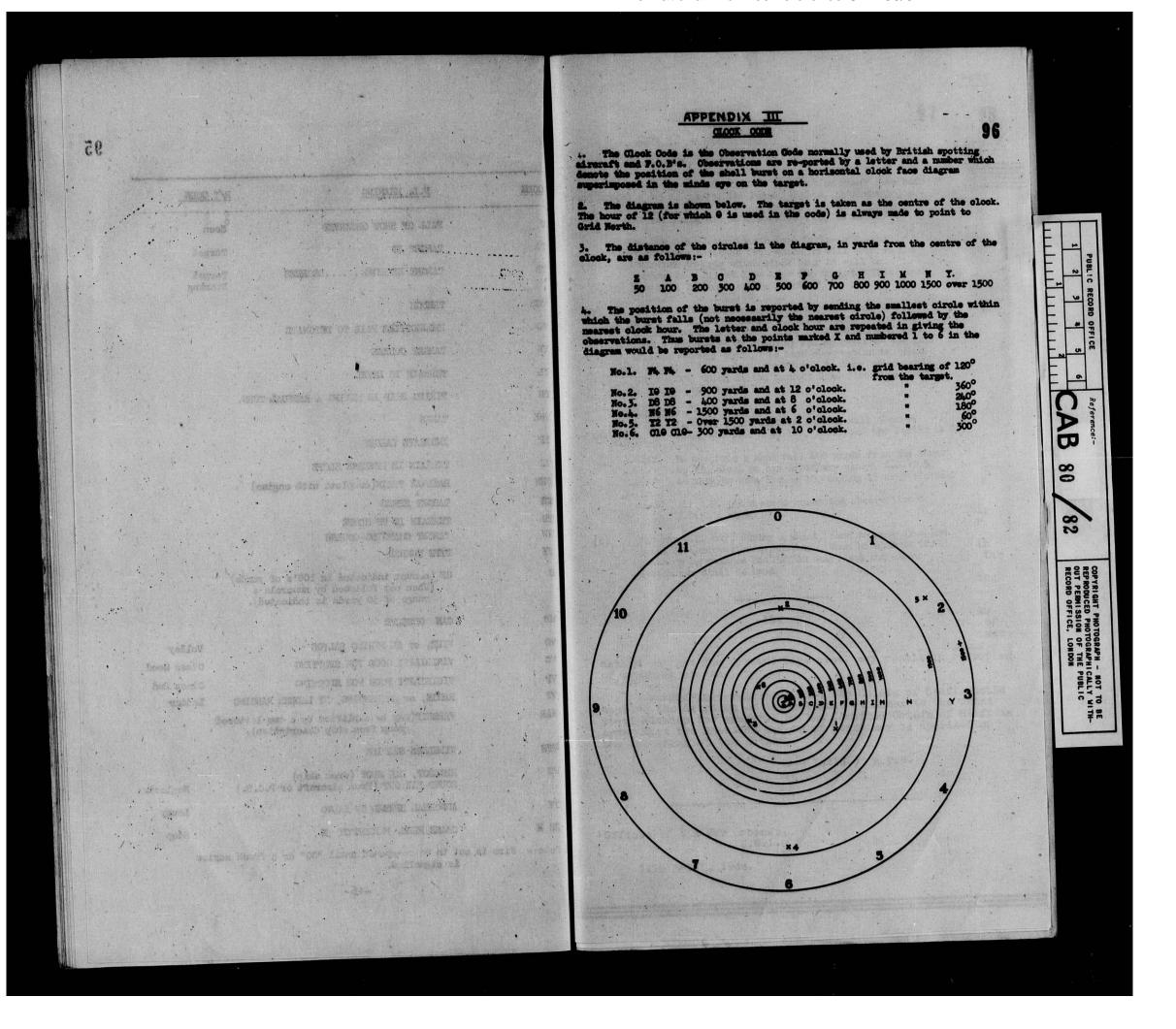


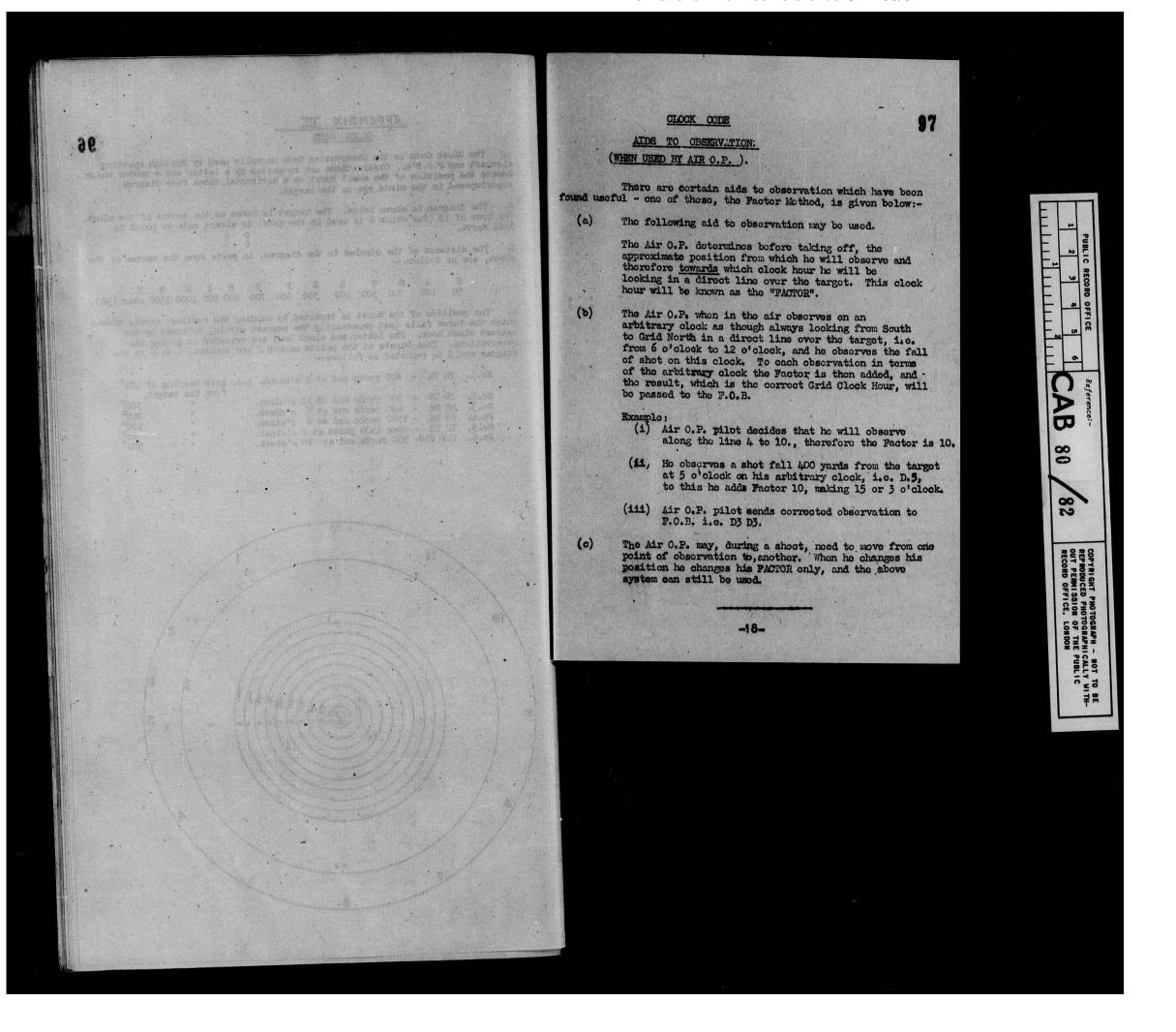


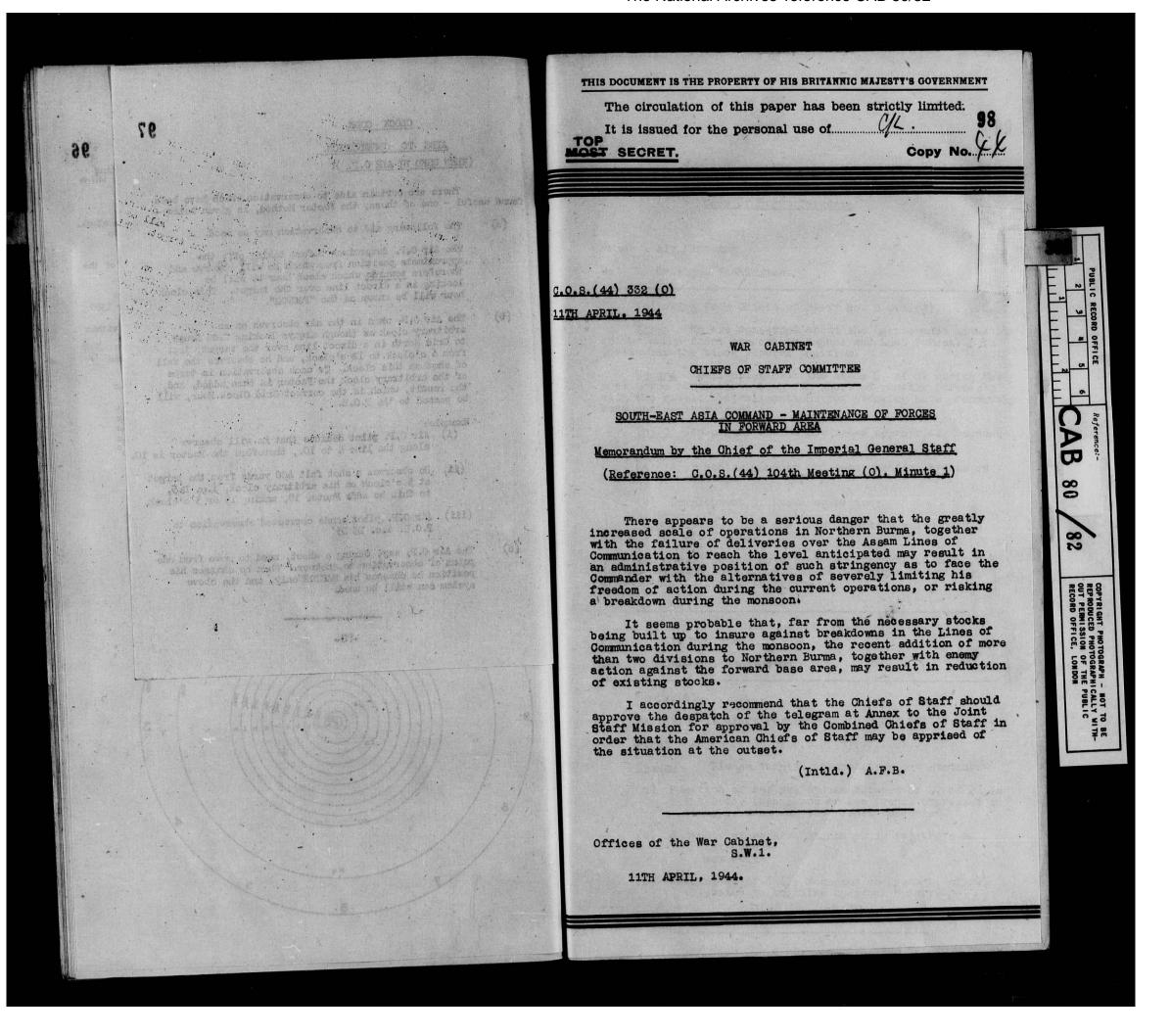


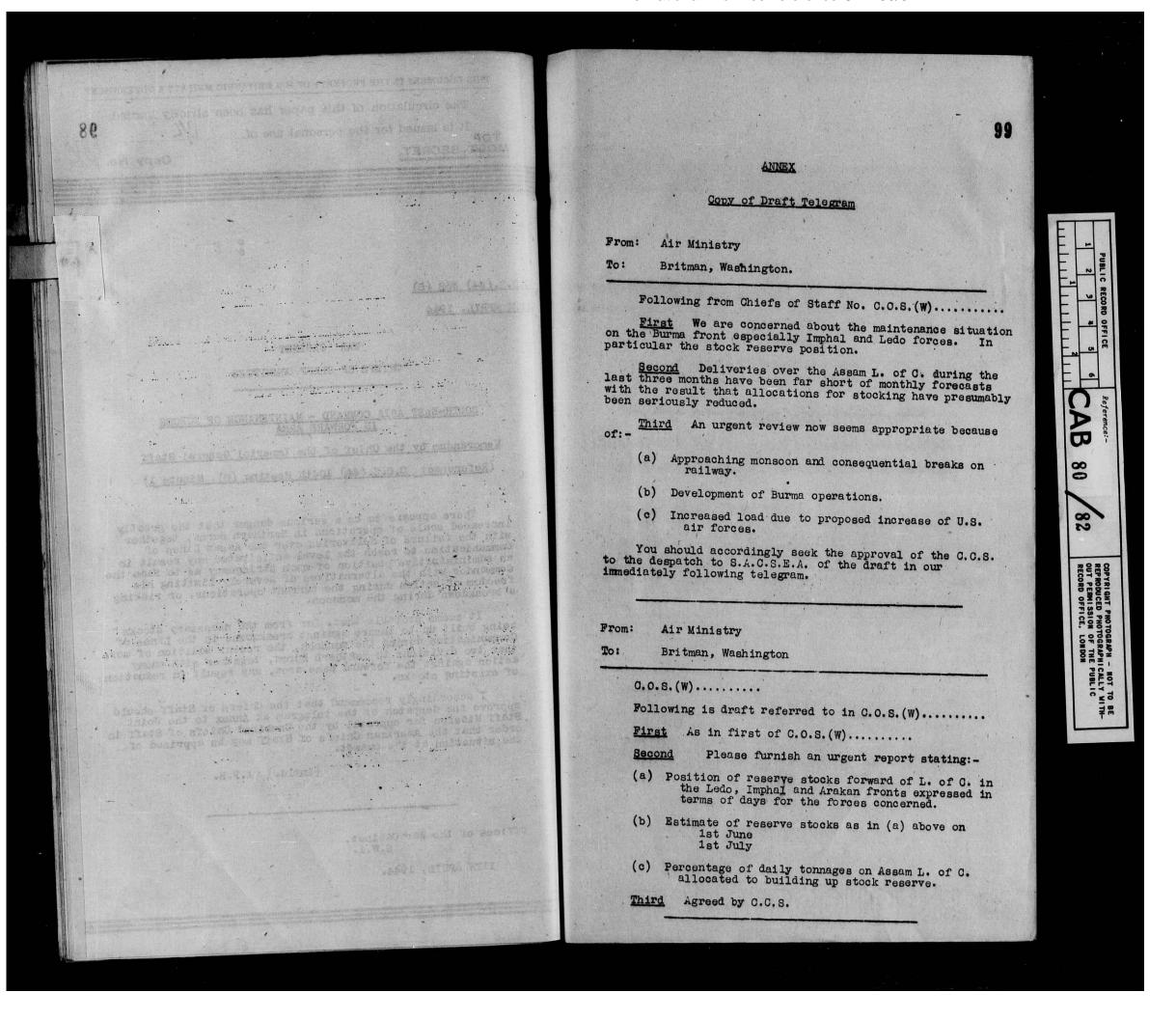


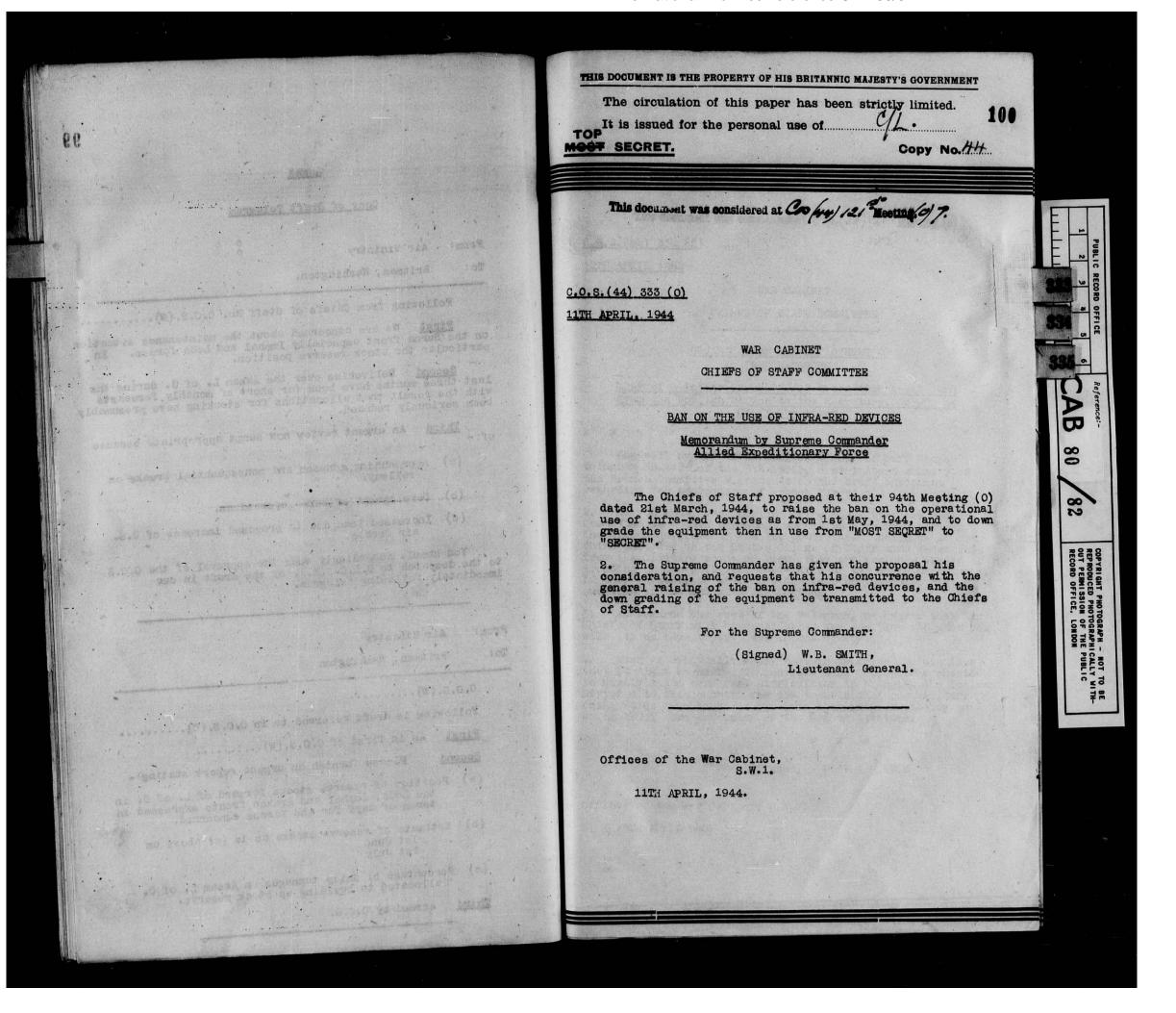


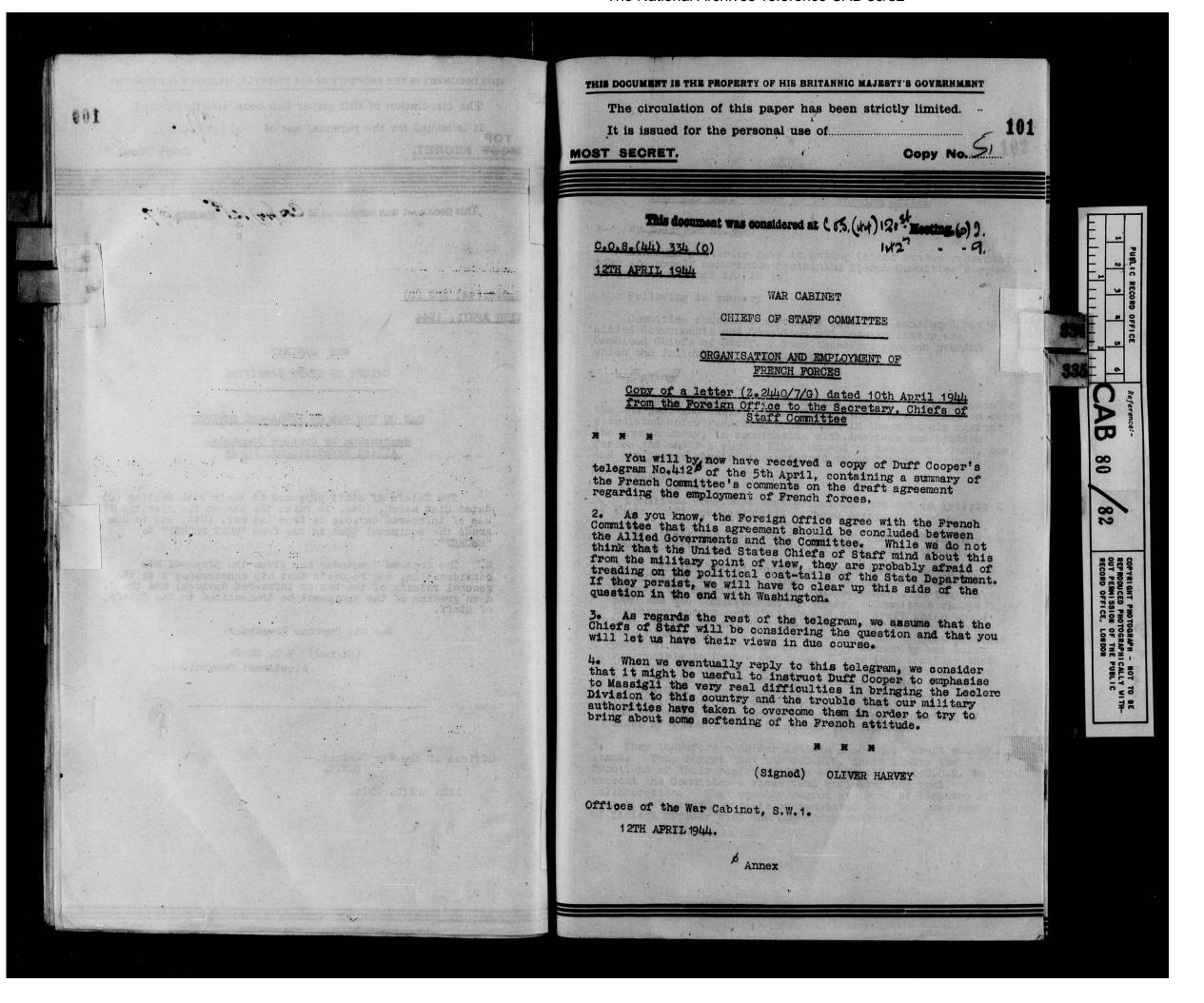


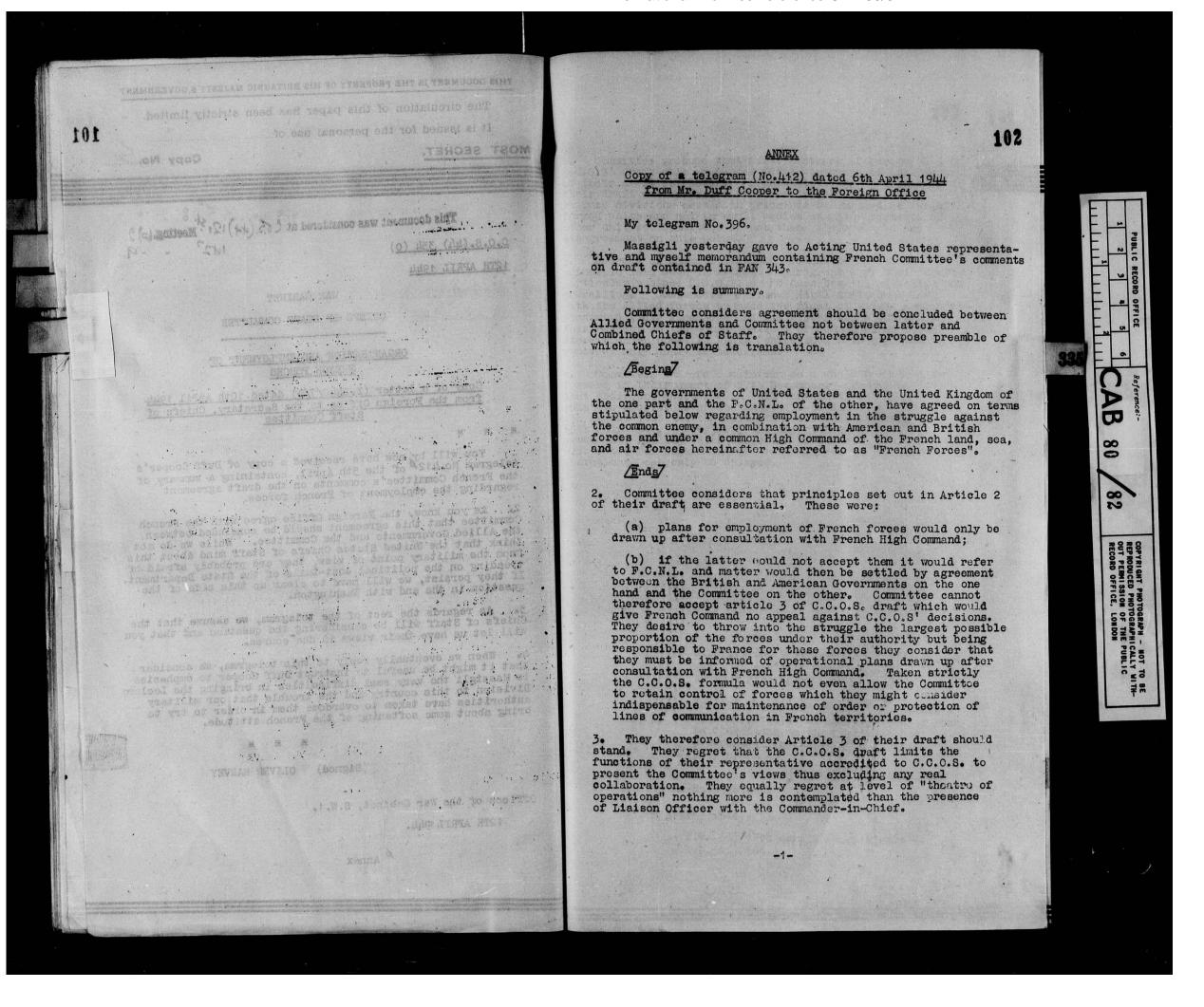


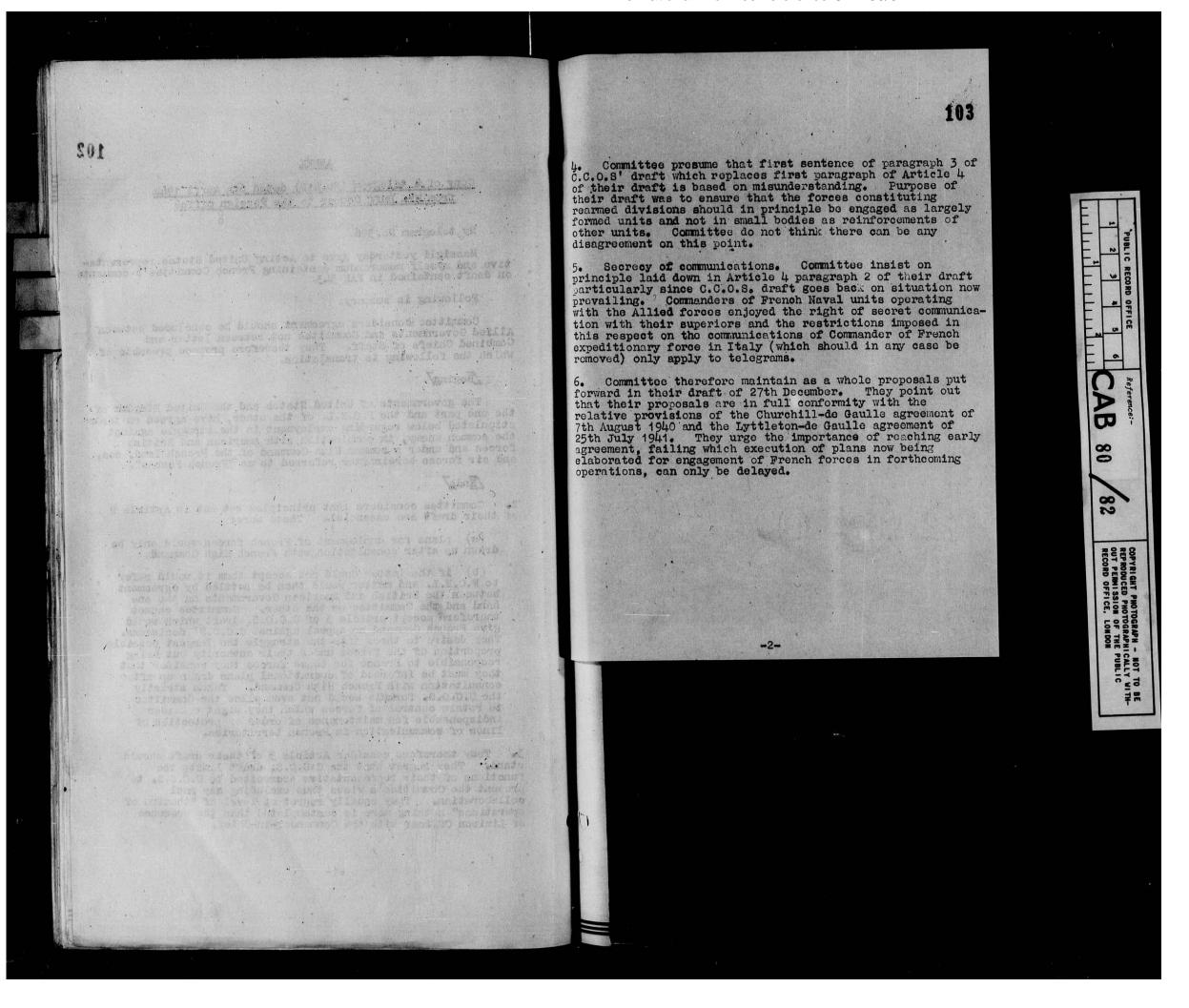


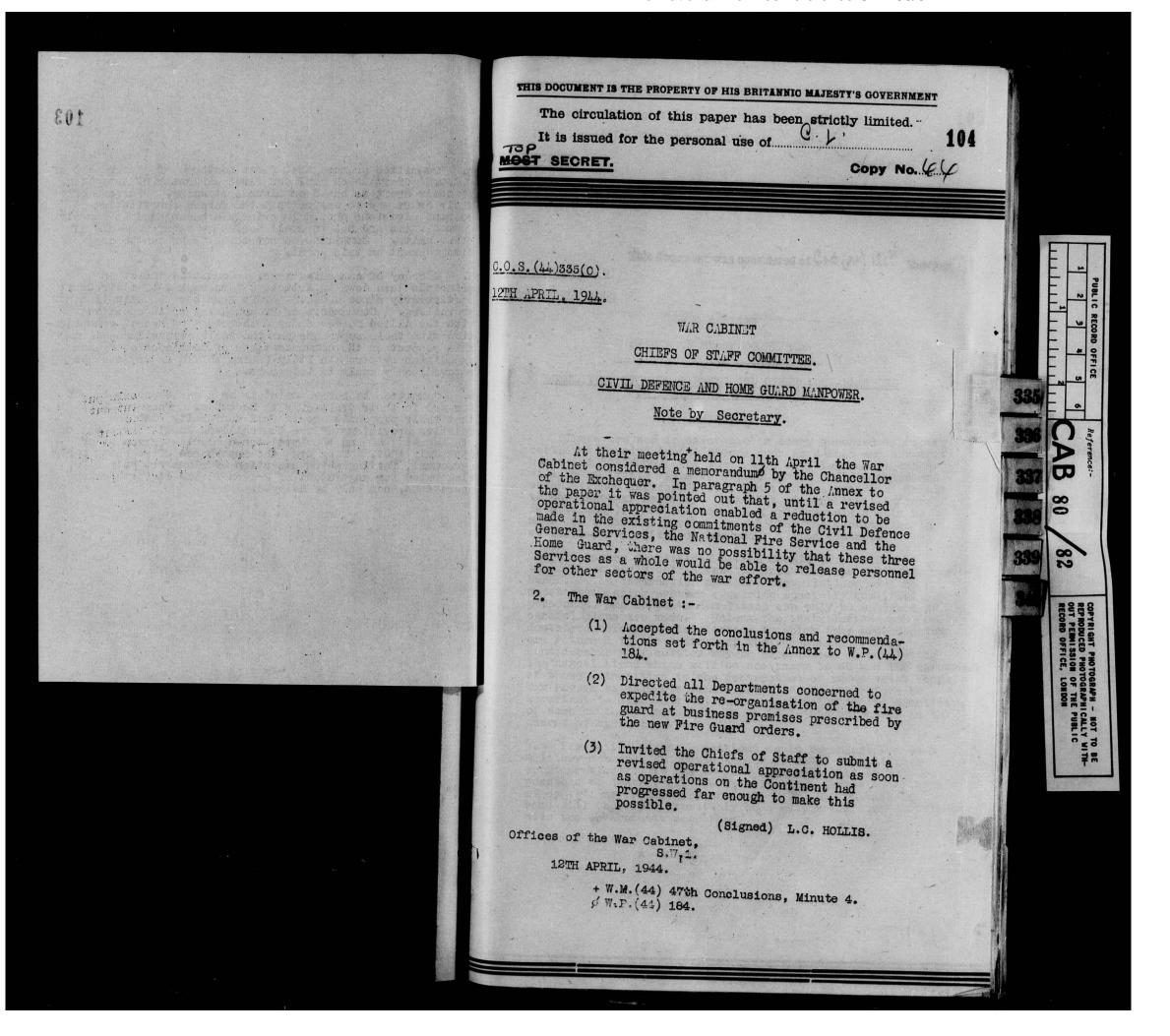


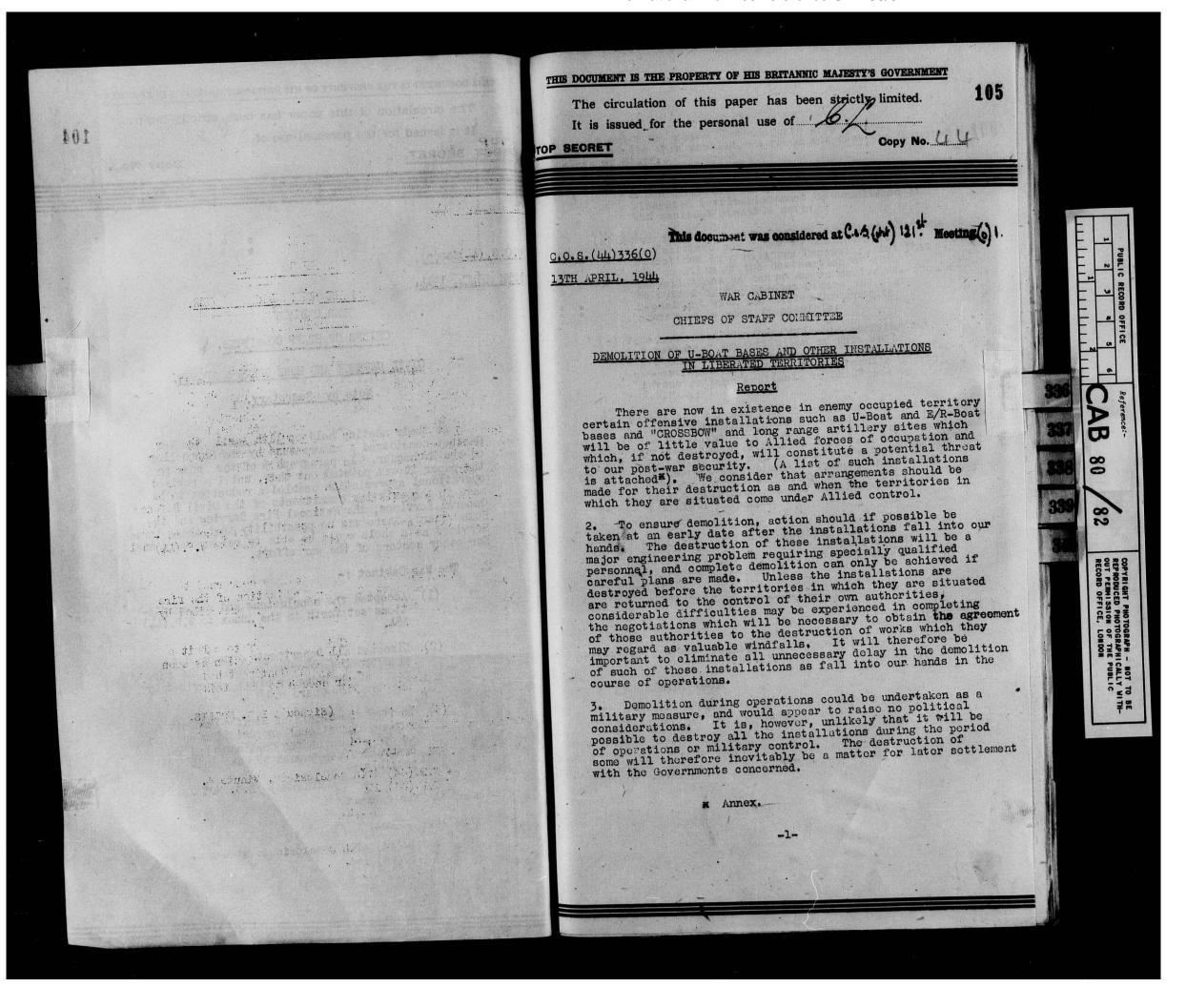


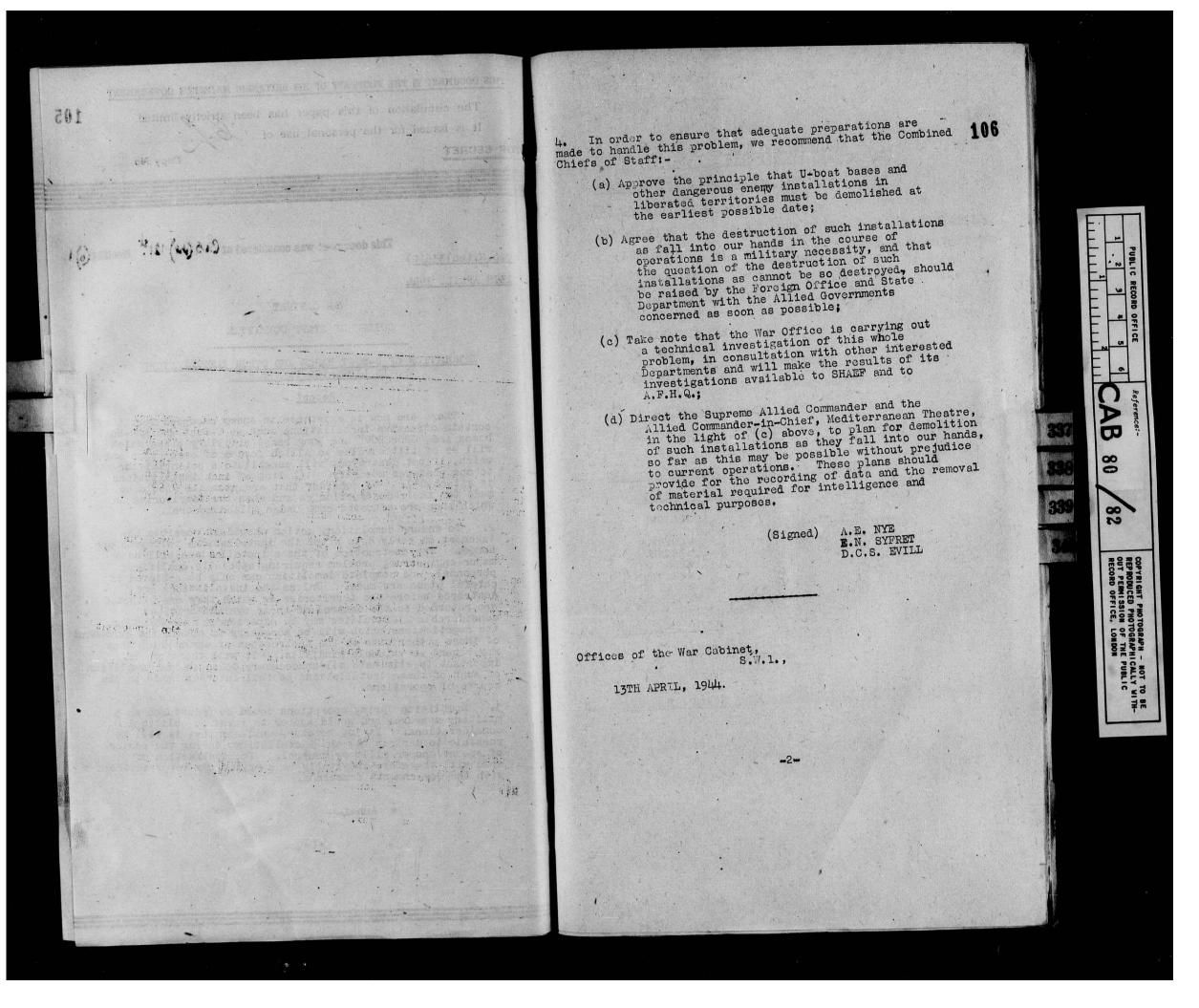


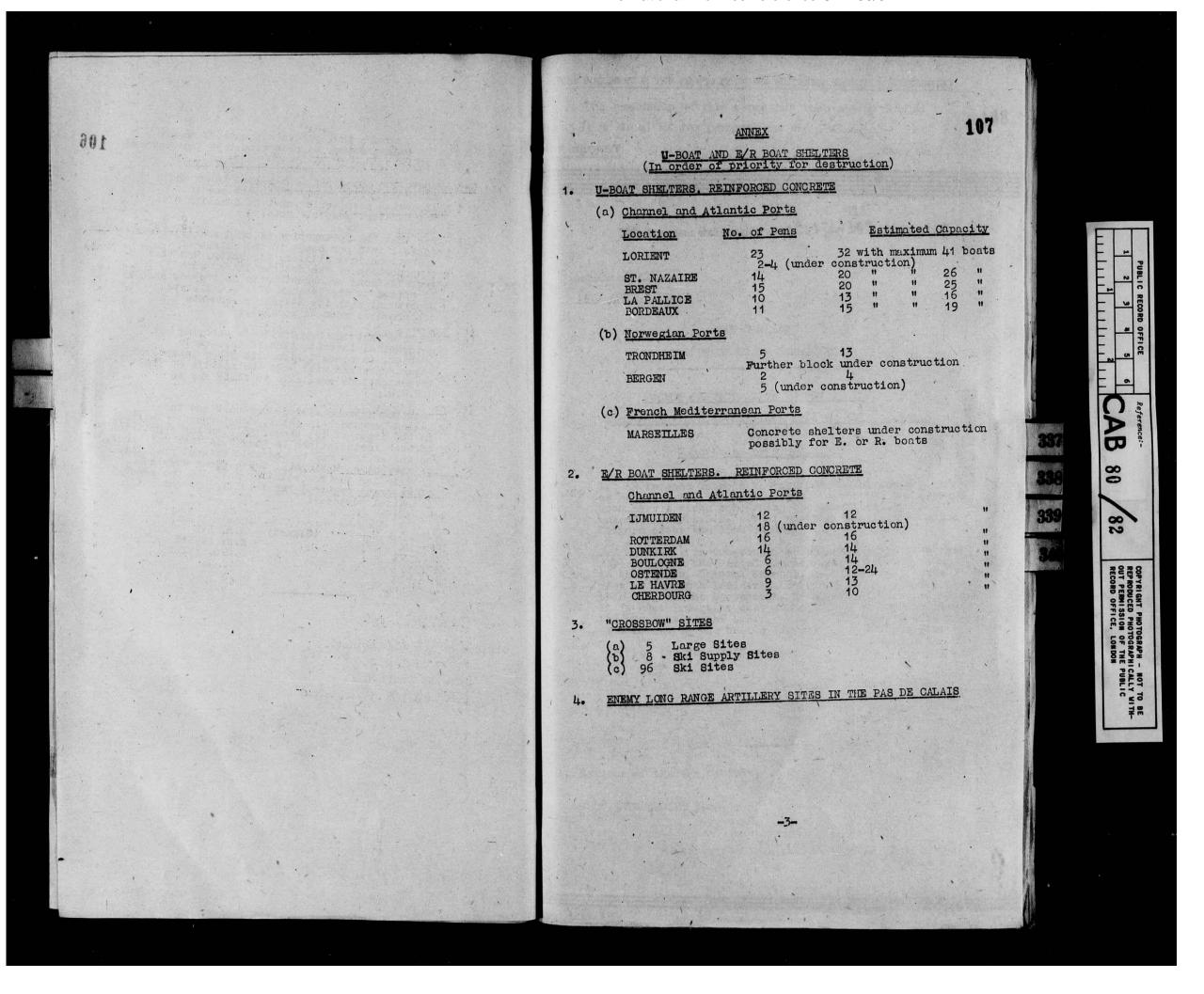


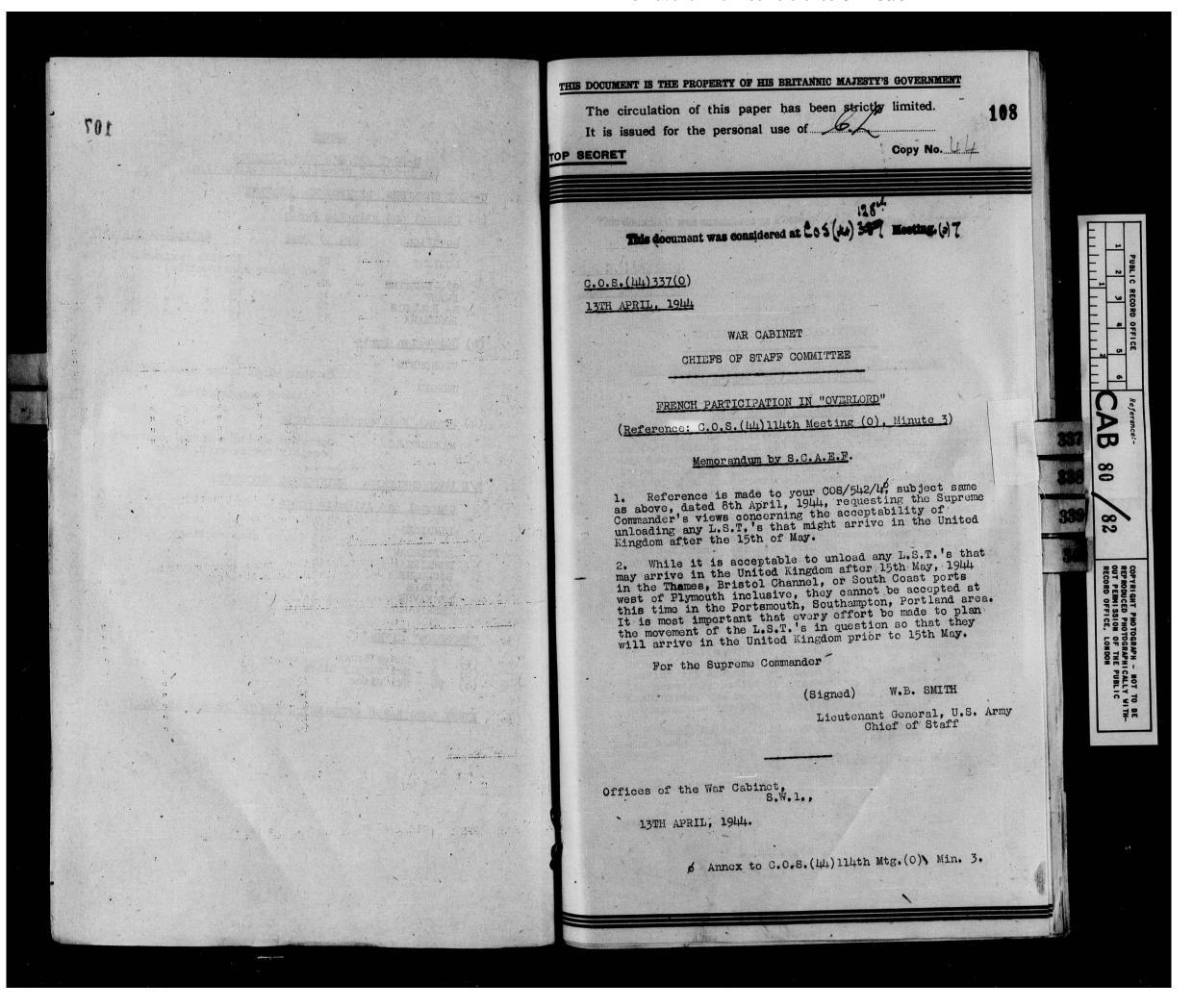


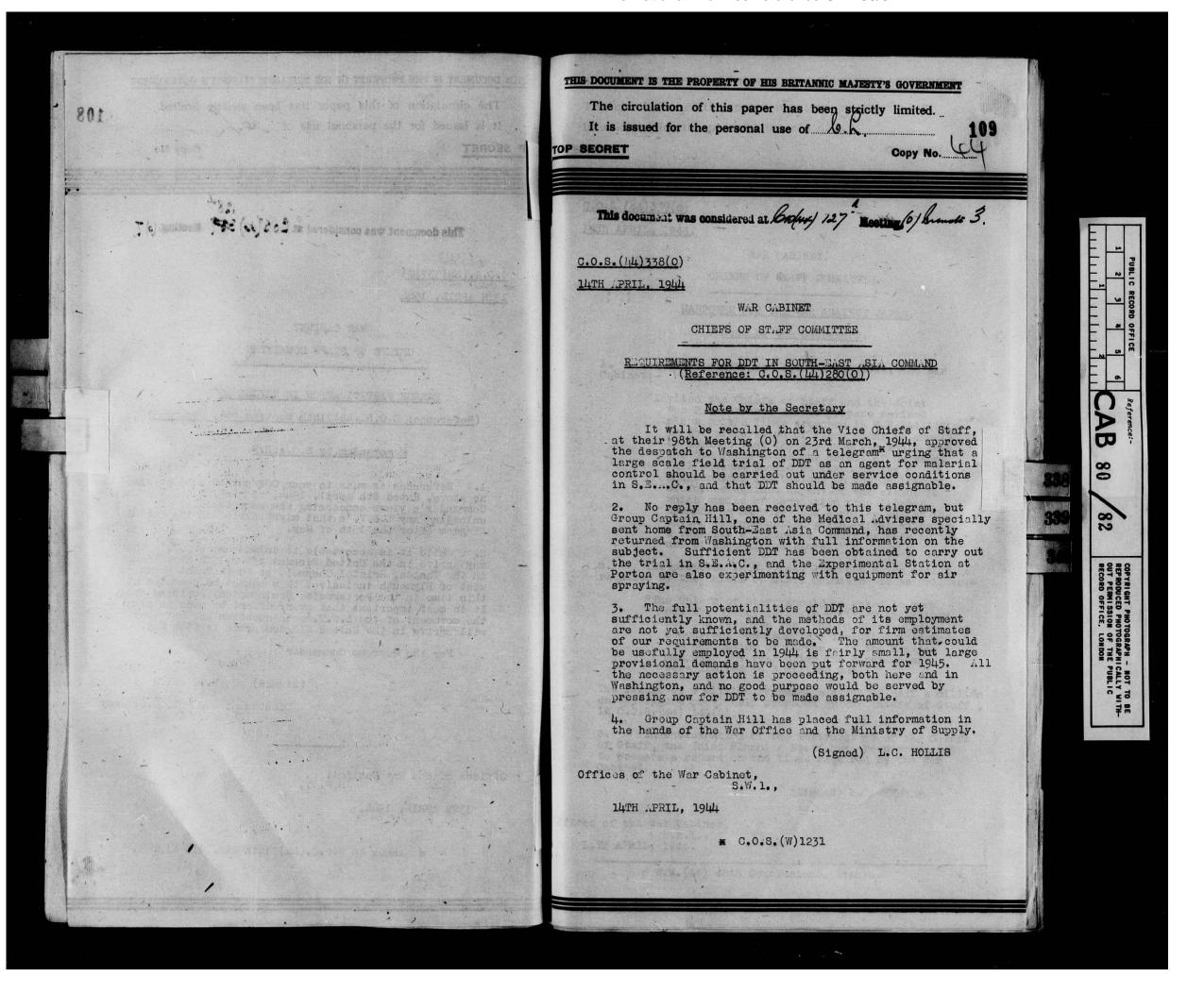


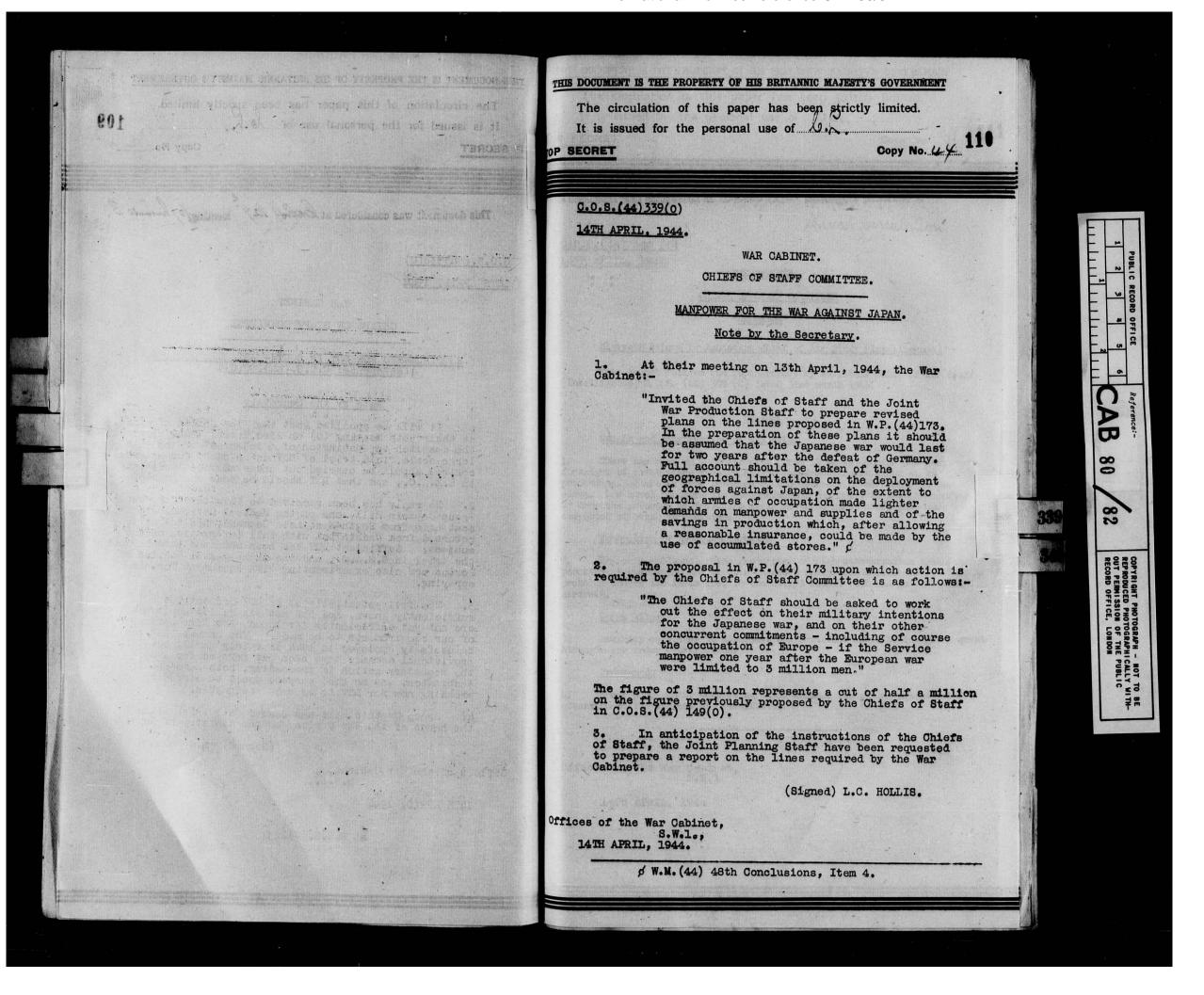


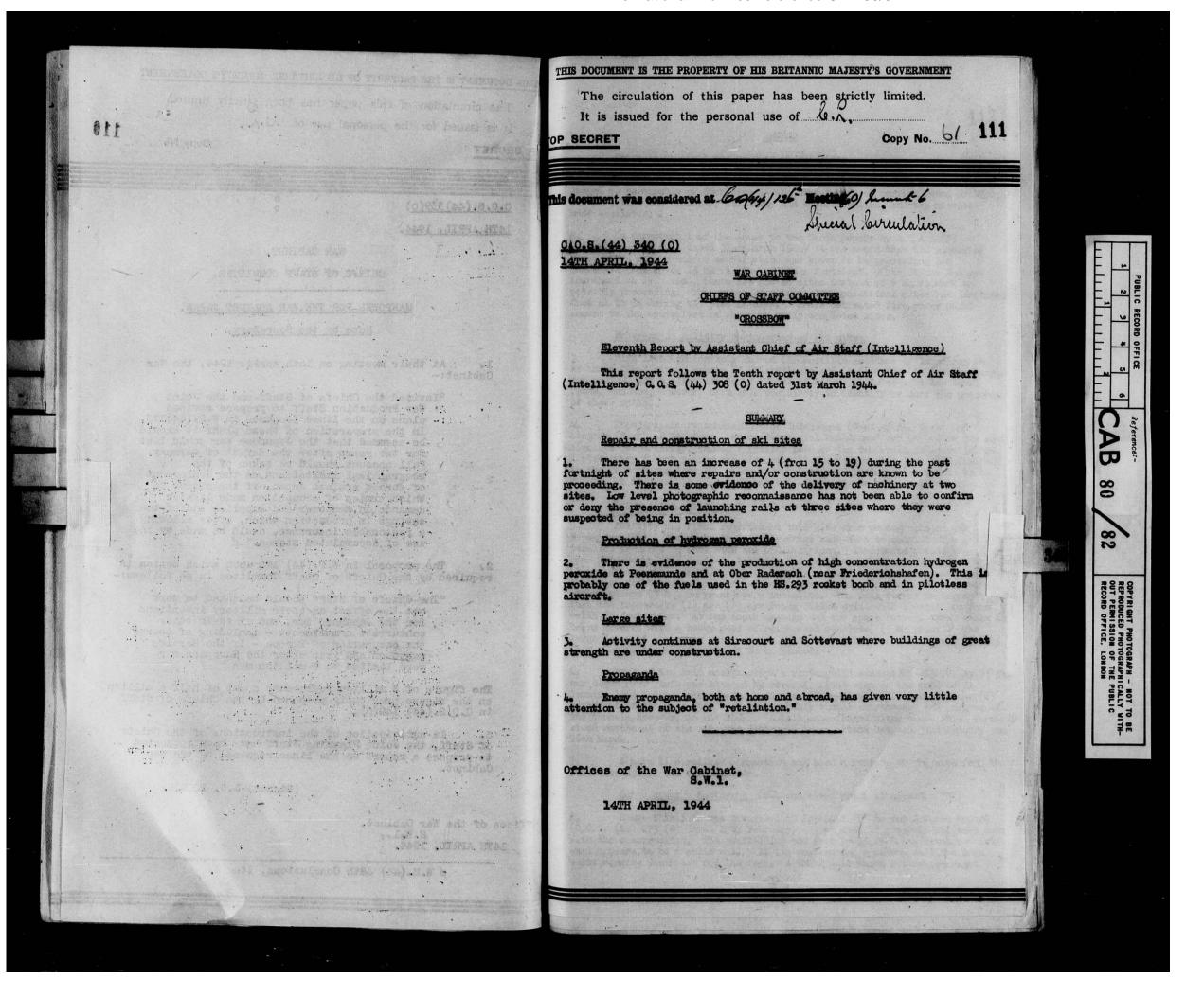


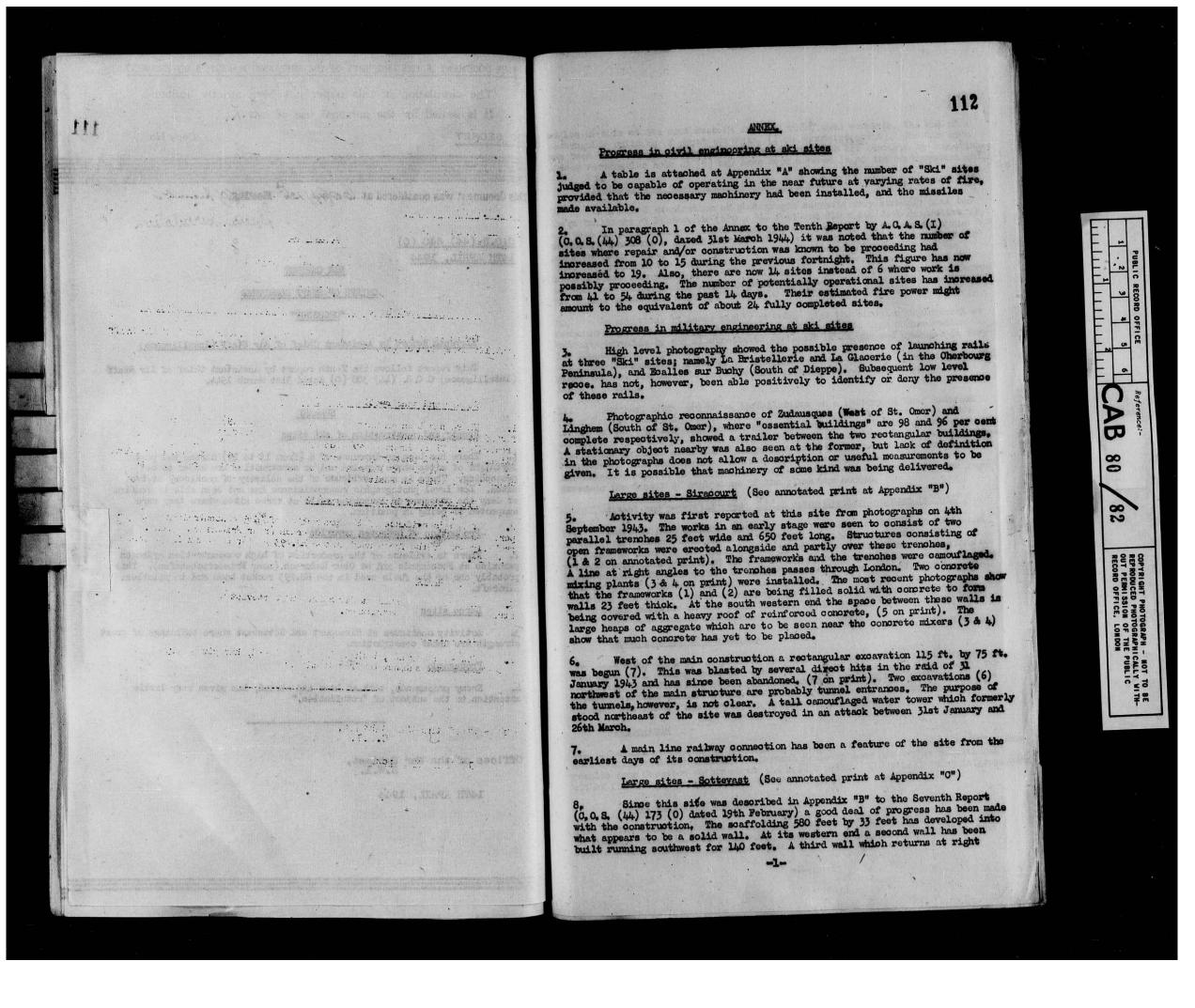












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angles to this at its southwestern end will form, when complete, the end of a rectangular building of great strength. (1 on annotated print). Further work has been done on the tremches at (2), but the details are obscured by camouflage. A deep rectangular hole at (6) may have been covered in at its northwestern end.

Production of compentrated hydrogen peroxide (See Plan at Appendix "D")

9. A detailed examination of photographs suggests very strongly that two large buildings at Peenemunde (670 x 318 feet and 810 x 400 feet respectively) are used to produce high concentration hydrogen peroxide by the electrolytic process. One bears a marked resemblance to buildings in this country used for peroxide manufacture, and the other is suitably constructed to contain the apparatus required for concentrating the solution. There is also a special ding point surrounded by a water-filled moat where the product is transferred to rail tank cars. Using normal British practice as a standard of comparison, the annual production might be about 1500 - 2000 tons at 90% concentration.

10. In addition, it seems highly probable that the circular emplacement at Peenemunde (see Plan at Appendix "D") is used to produce high concentration hydrogen peroxide by the electrostatic synthesis of oxygen and hydrogen at very low temperature, a process not used commercially in this country, but one in which the Germans were known to be interested before the war. The output of this plant is more difficult to estimate, but probably equals that from the two large buildings.

11. Further, there are three installations at a factory at Ober Raderach (near Friederichshafen) which are almost identical with the structure at the centre of the circular emplacement at Peenemunds. Other buildings are entirely consistent with the production of hydrogen peroxide by the electrostatic process.

The output would be about three times that from the circular emplacement at Peenemunde. The Ober Raderach factory has frequently been mentioned in intelligence reports as having a connection with "secret weapons" and one report stresses the danger of explosions if the place was bombed.

Actual and potential uses of high compentration hydrogen peroxide.

There is good evidence that hydrogen peroxide is the main constituent of the German liquid fuel known as "T-Stoff" (see note at Appendix "E").

"T-Stoff" is used (in conjunction with "Z-Stoff" - confirmed as being calcium permanganate) as a propellant in the HS. 293 rocket bomb and in rockets used for assisted aircraft take-offs. It is now reasonably sure that "T-Stoff" is also used to record relations of the confirment. used to propel pilotless aircraft: in any case, this fuel fulfils some important function in their operation. It is also theoretically possible to use hydrogen peroxide in the large rocket. (Experiments with the large "A.4" rooket have been made at Peenemunde).

Other sources of production

13. A study of known sources of hydrogen peroxide production in Germany has been initiated. Using their pre-war output of 30% concentration as a basis for estimation, the five largest firms could produce about 2000 - 3000 tons of 90%. concentration per annum. It may therefore transpire that Peenemunde and Ober Raderach are the two most important centres of production.

14. A note on "German Propaganda and a Secret Weapon" is at Appendix "E". This note concludes that the German Propaganda Ministry does not expect sensational results from Orossbow within about the next 6 weeks. There is nothing in propaganda either for or against the use of Orossbow weapons on a small scale.

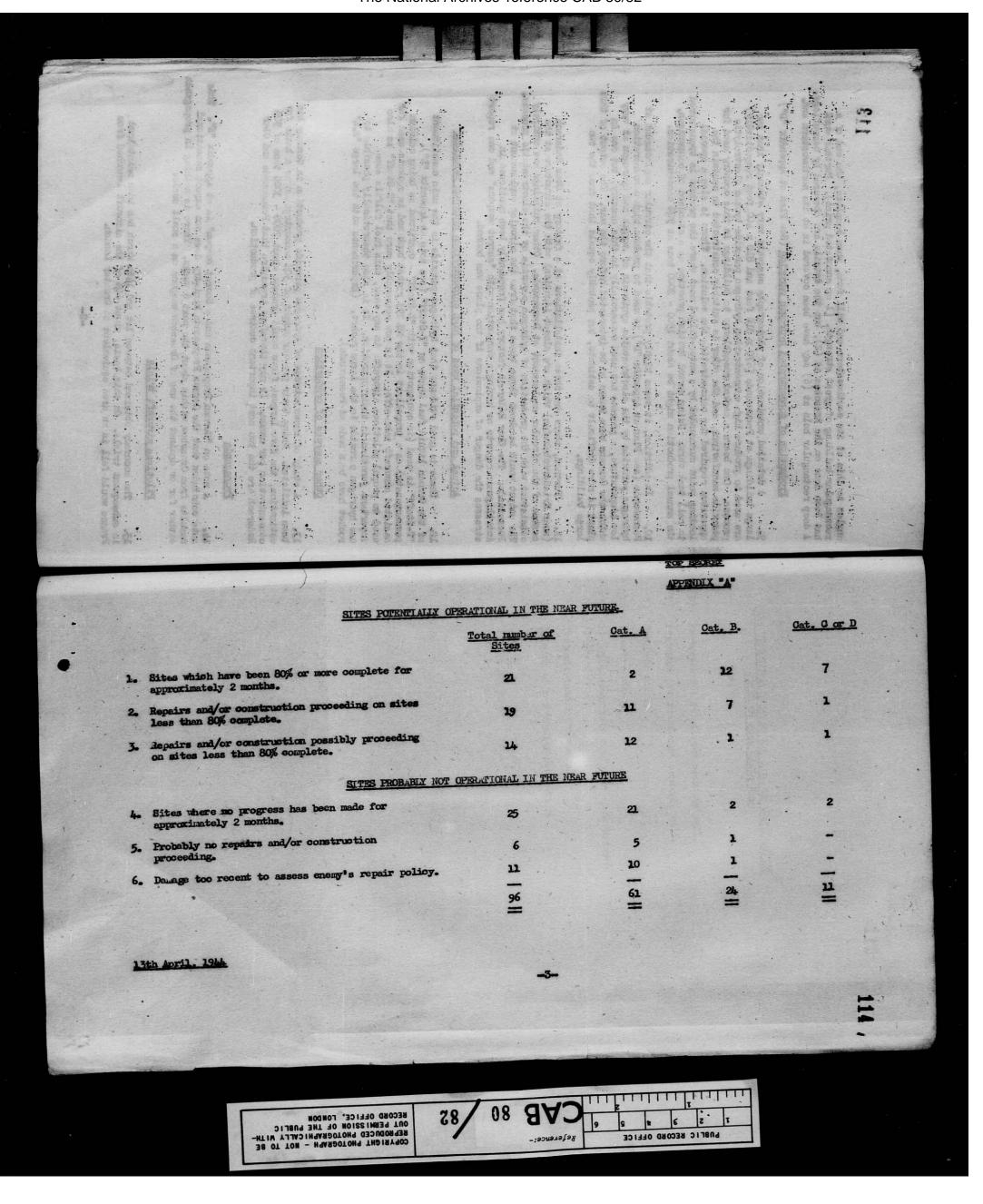
Pilotless aircraft trials

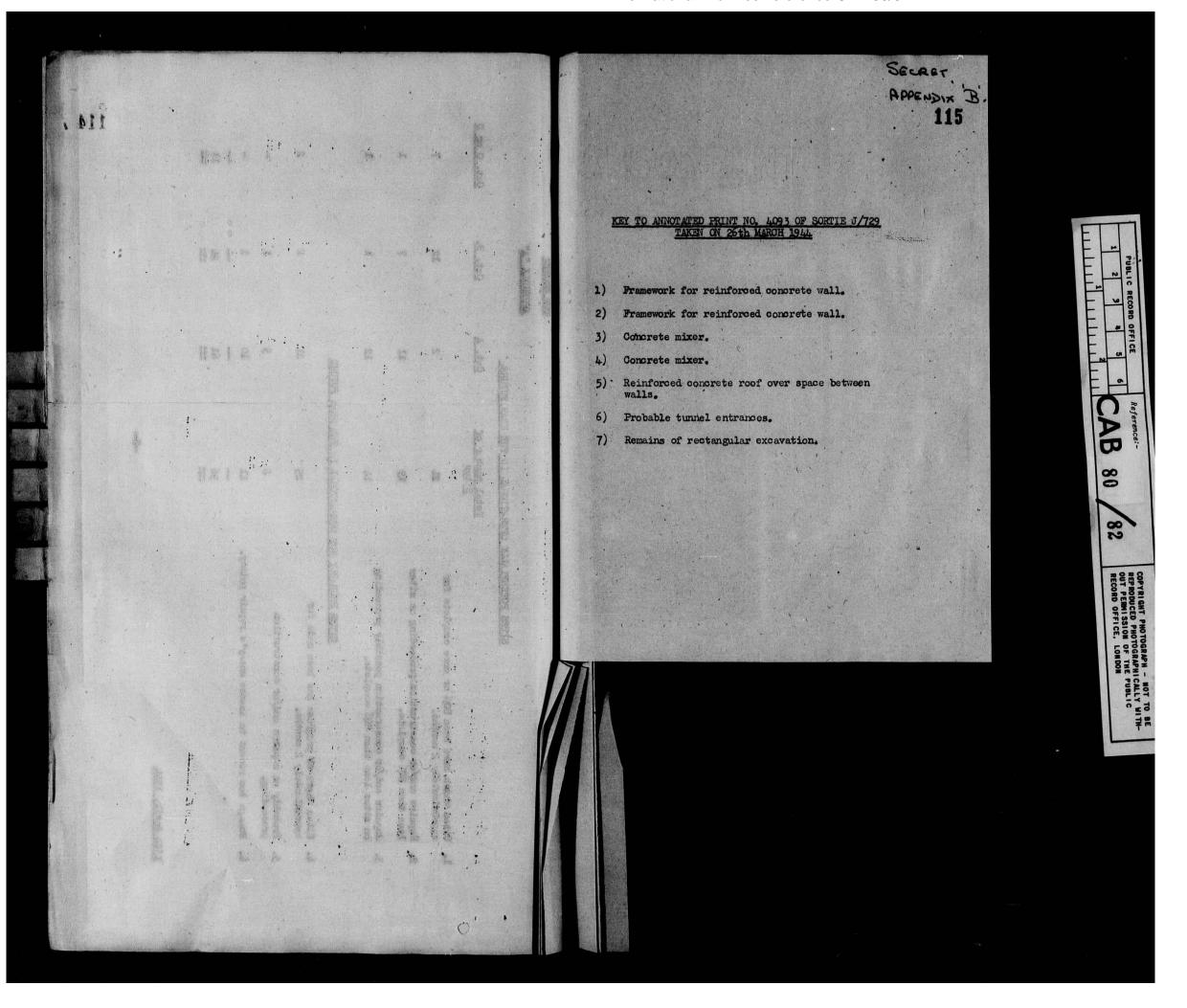
The accuracy obtained between 1st and 14th March has been maintained in subsequent trials. On this basis, about 60% of the aircraft laurohed from France would fall in an area equivalent to Greater London. PUBLIC RECORD OFFICE

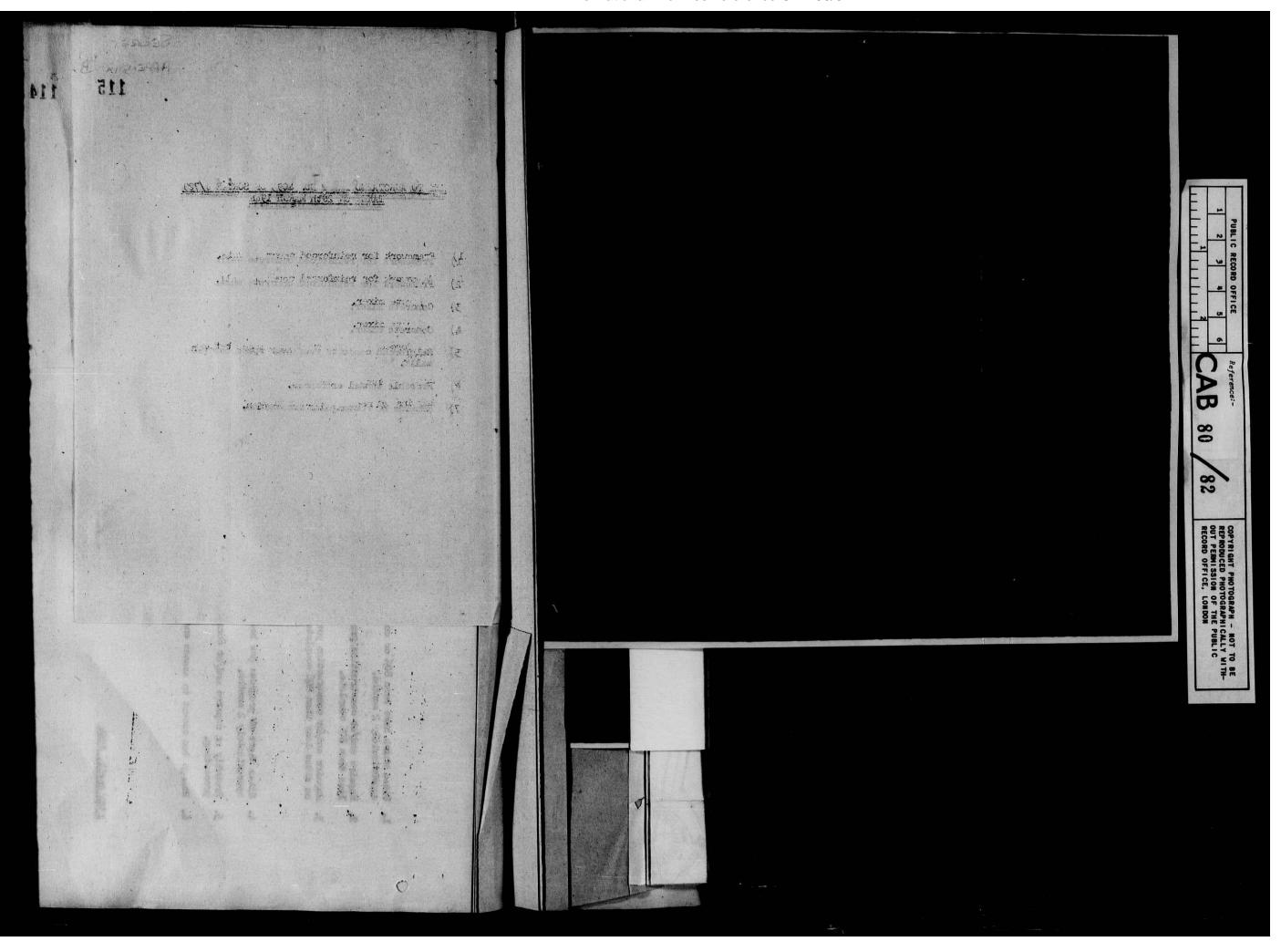
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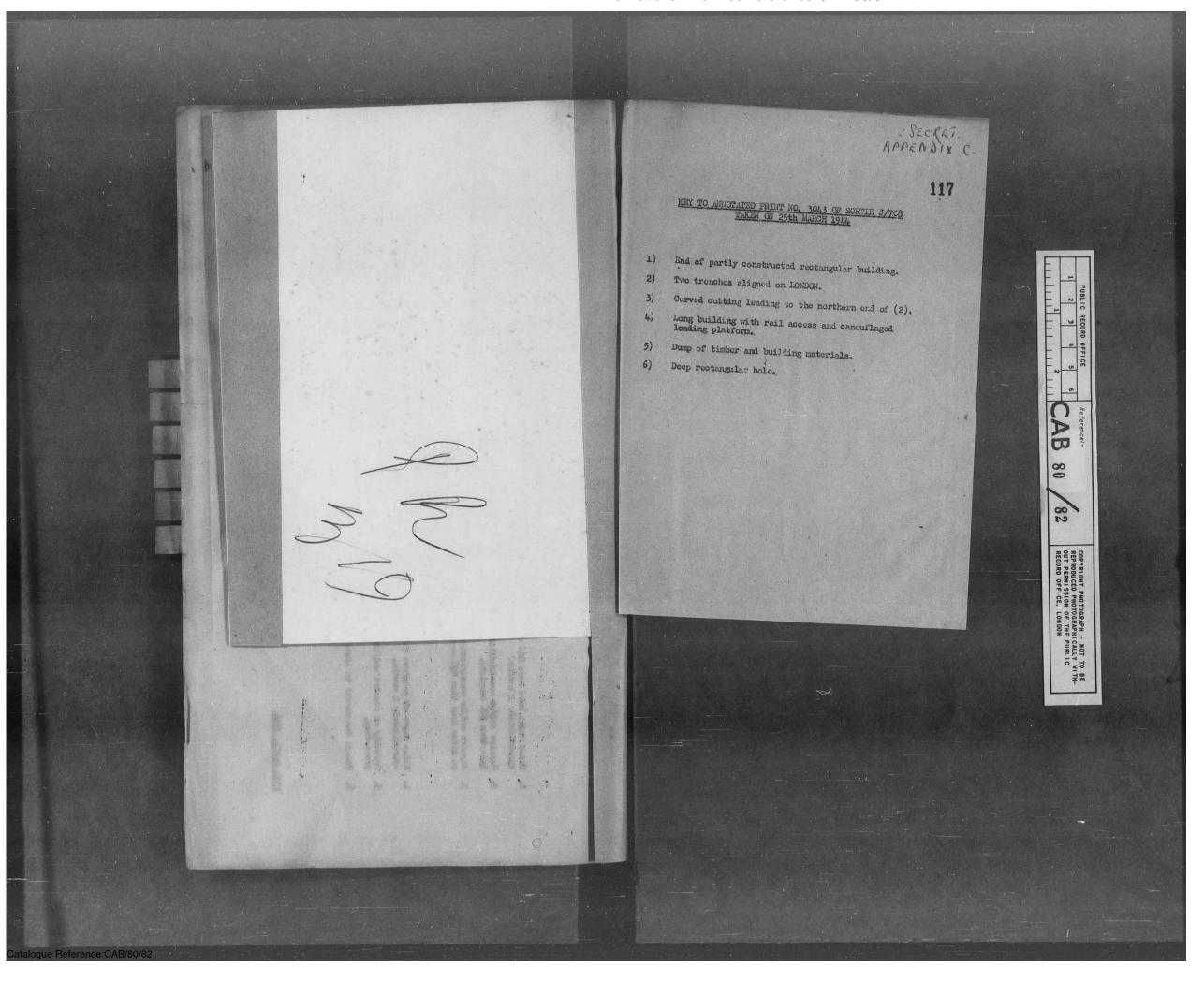
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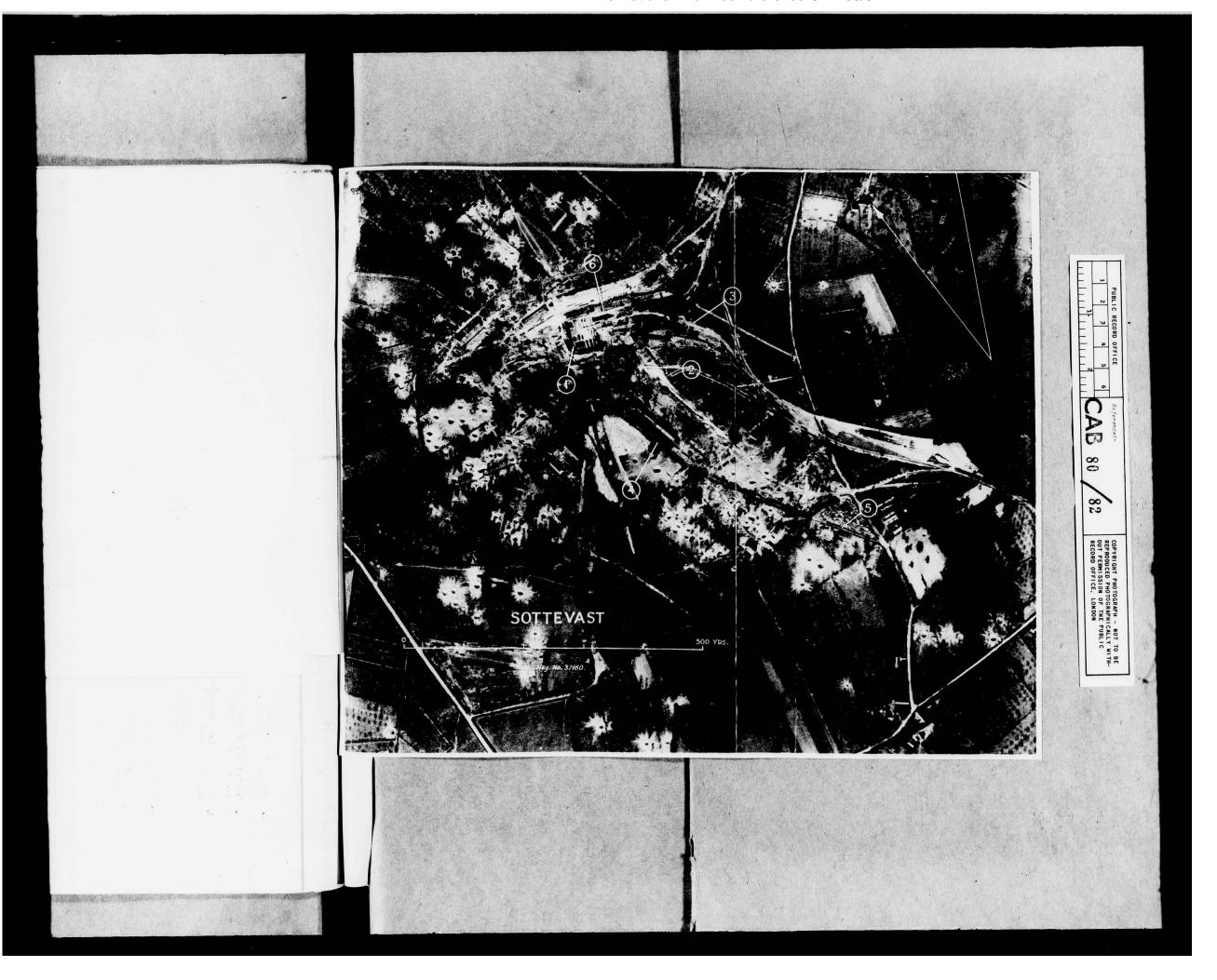


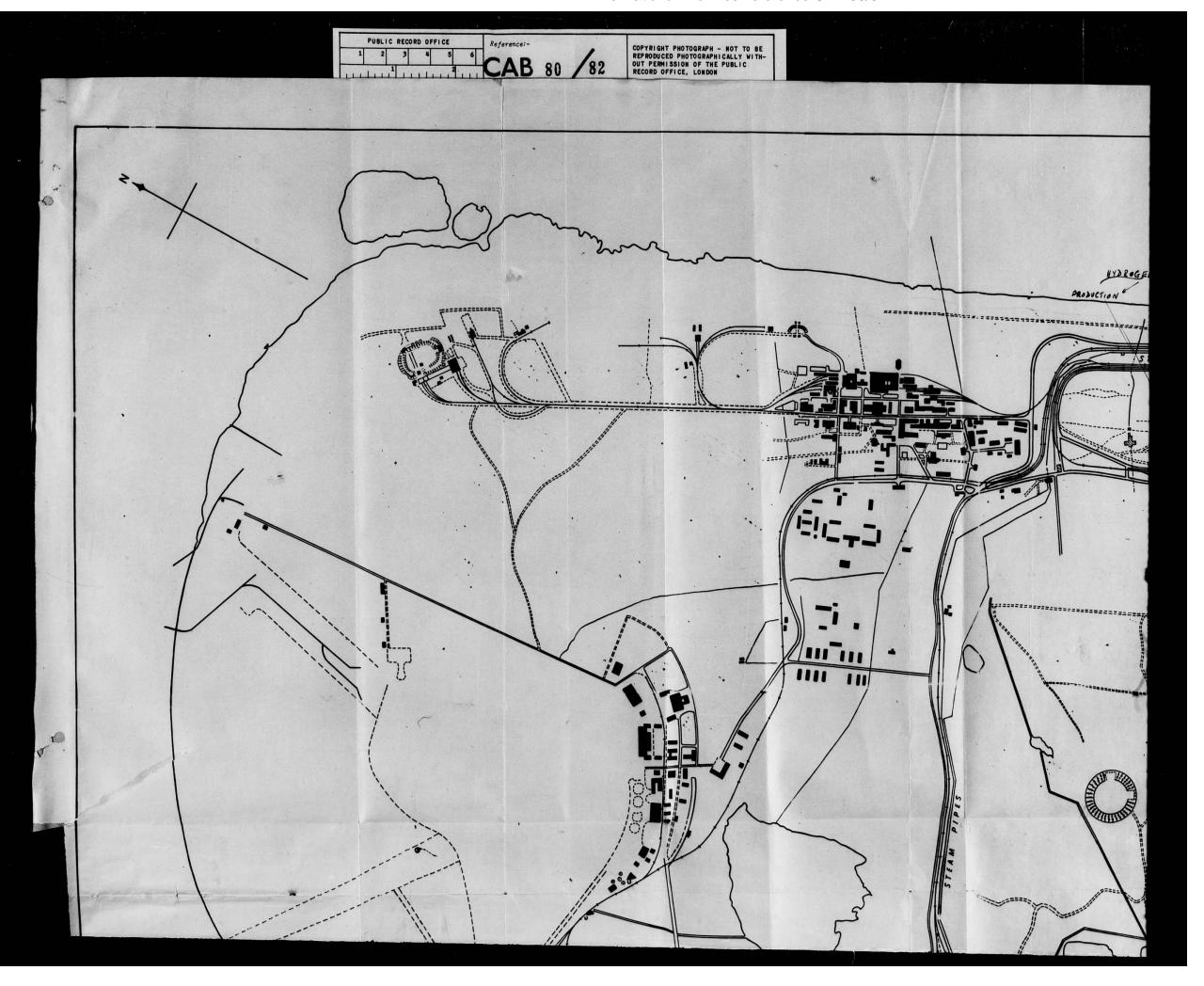


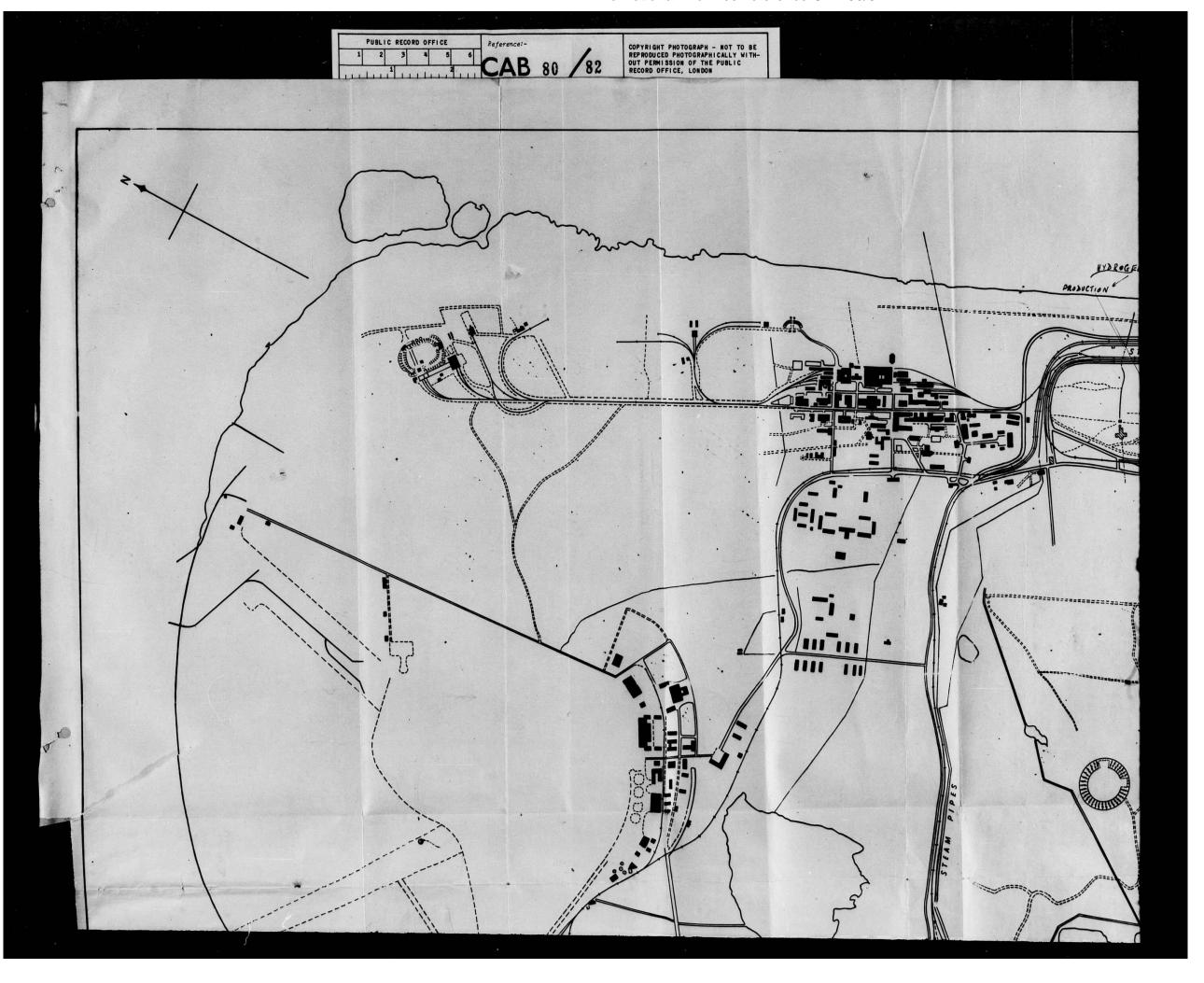


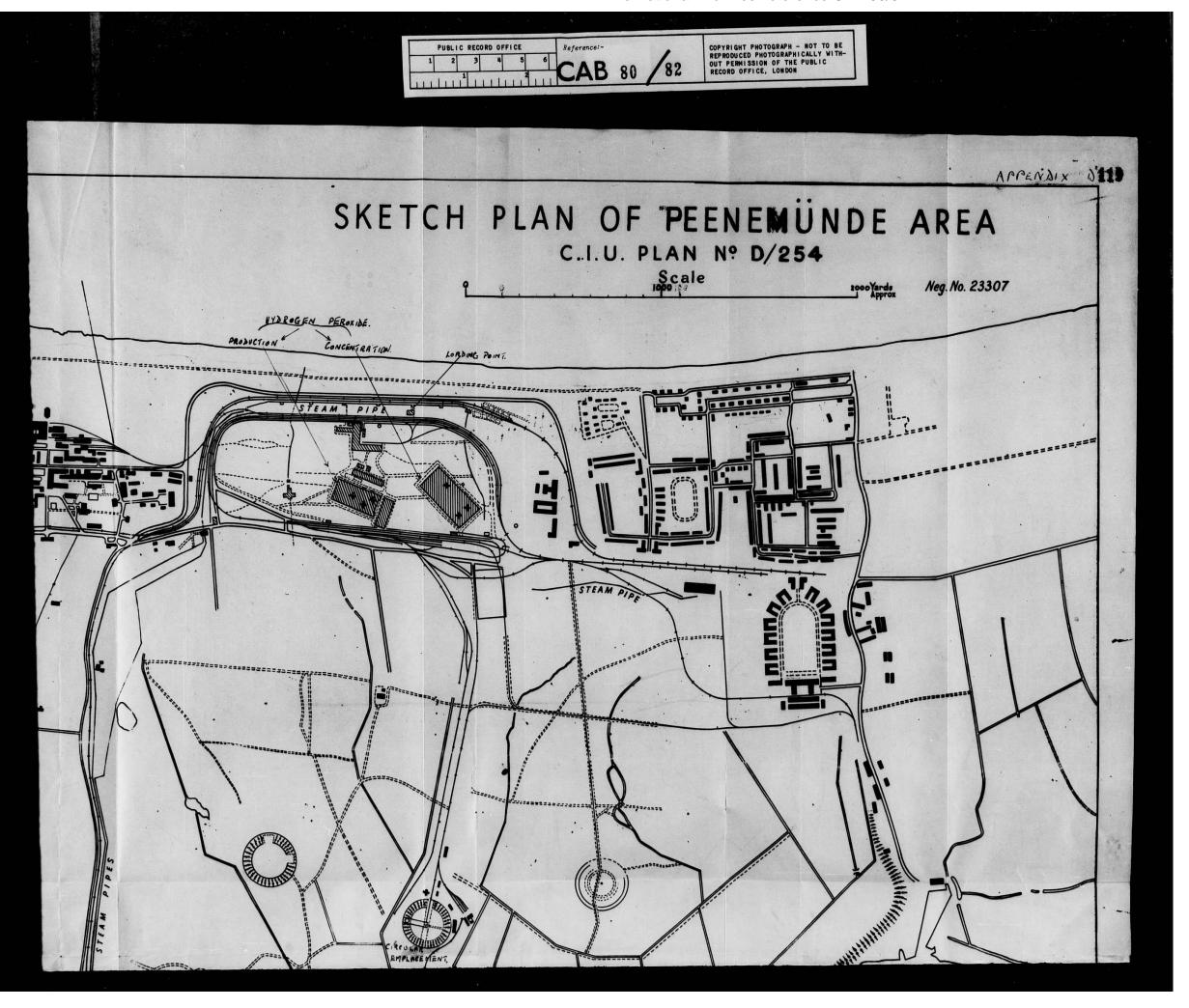


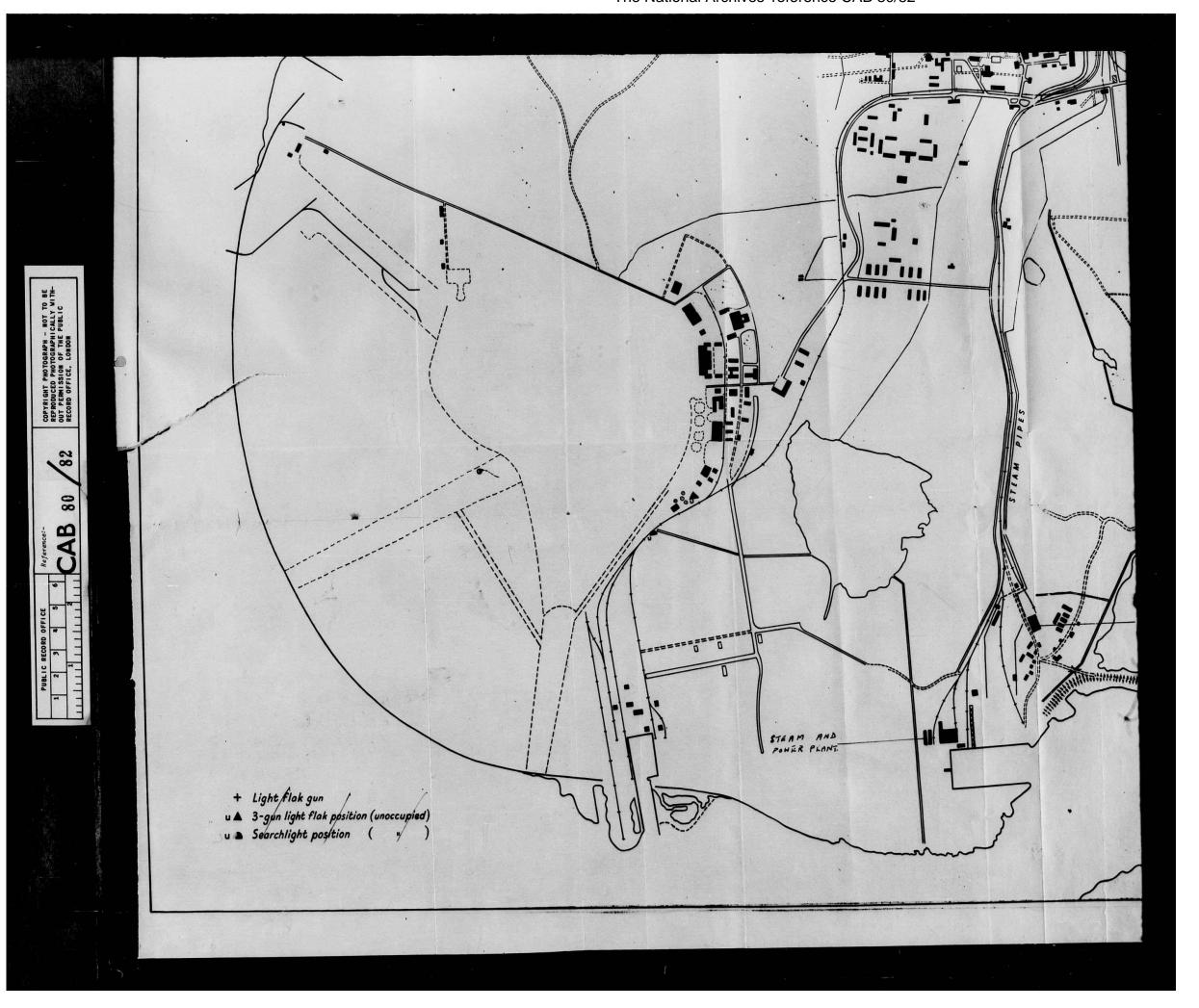


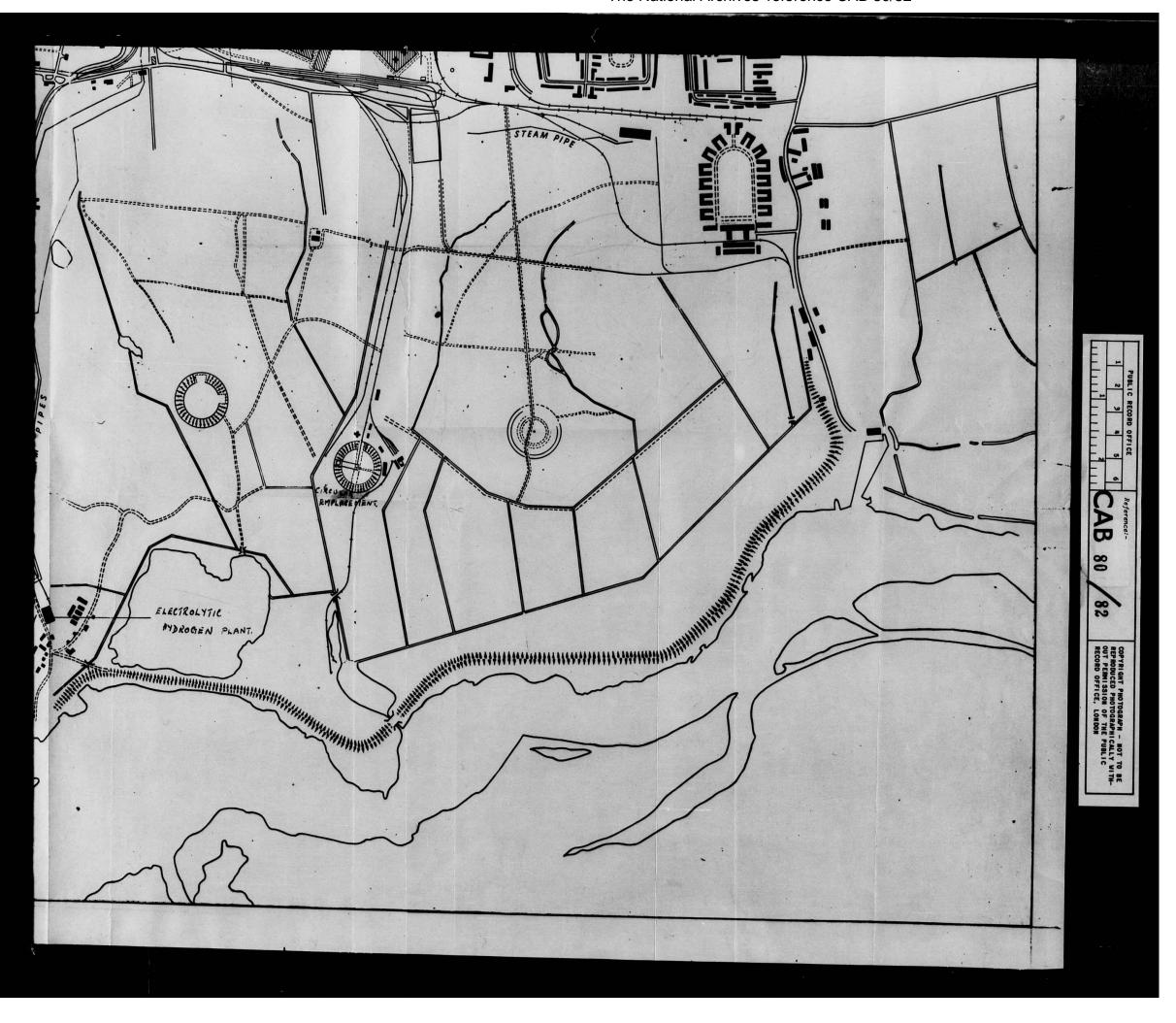












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APPENDIX "E"

EVIDENCE CONCERNING THE NATURE OF T-STOFF

Introduction

l. Nearly a year ago we received our first Most Secret indication of the existence of "T-Stoff", which was subsequently found to be the driving component fuel of the HS 293 rocket unit. It contains data which may differentiate between the two types of suggested composition, and is therefore worthy of examination in some detail.

Data

2. On 30th April 1943, 1 Airfield Servicing Company (S)3, probably at Villacidro reported the following figures for concentration tests of "T-Stoff".

Container 1		81.5	per cer
. 2		81.1	" "
. " 3	•	. 81.9	
* 4		80.3	
. 5		81.3	17
• 6		81.9	
7	1 1	82.4	
" 8		82.4	. 11
" 9		83.6	
" 10		82.2	
" 13		82.4	11
· 14	S. Carlotte Control	82.8	11

Deduction

- 3. From this information, it is possible to make direct deductions:
 - (a) The principal component in T-Stoff constitutes between 80 and 84%.
 - (b) It is necessary to check the concentration, perhaps because this is expected to vary with age.
 - (c) Variations of about % in the major component do not appear to make it unsuitable for use.

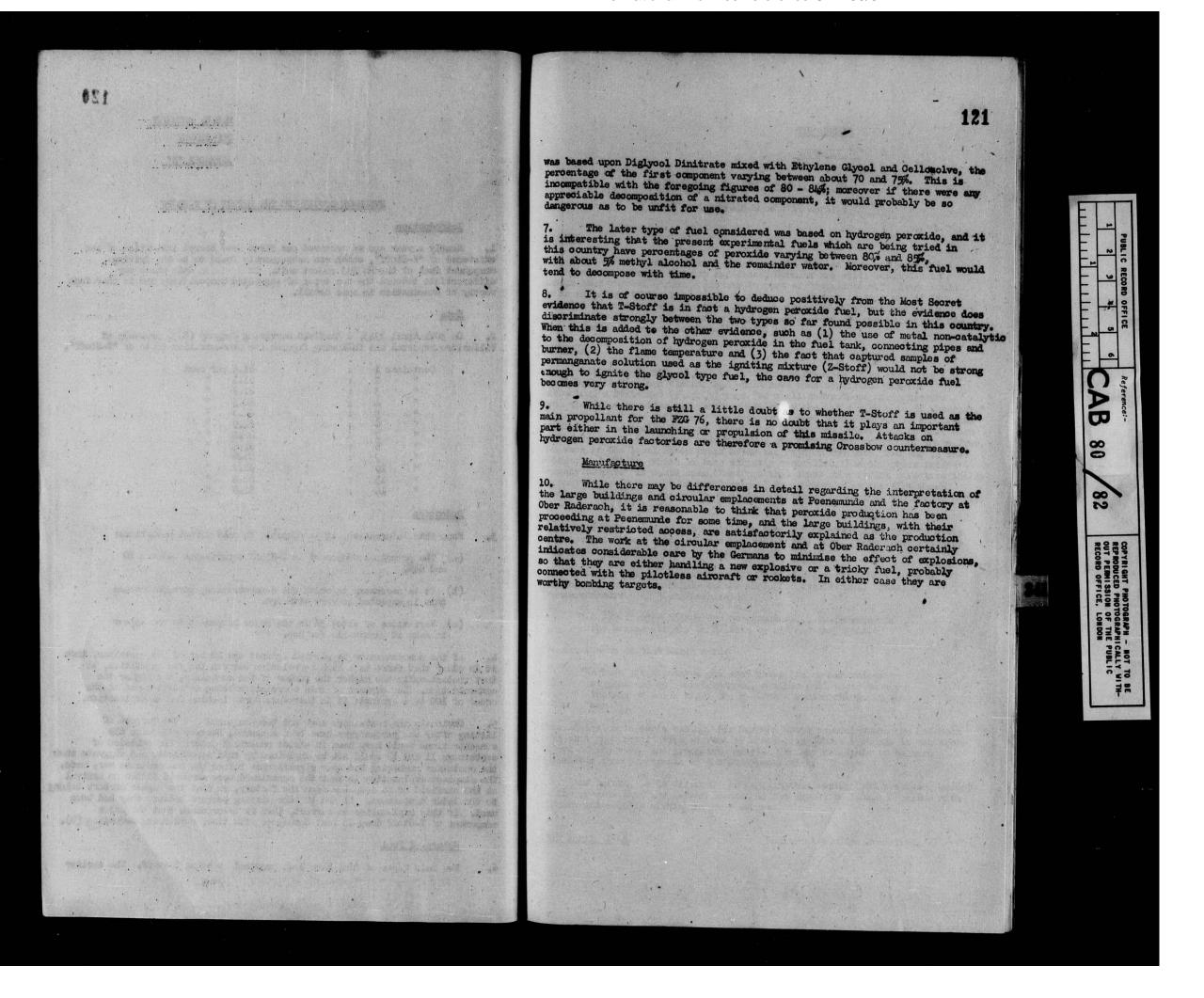
4. If the concentration is plotted against the number of the container, then it is clear that there is a high correlation between the two quantities, so that statistically the higher the number of the container, the higher the compentration. The chances of this correlation being accidental are of the order of 100 to 1 against: it is therefore worth looking for an explanation.

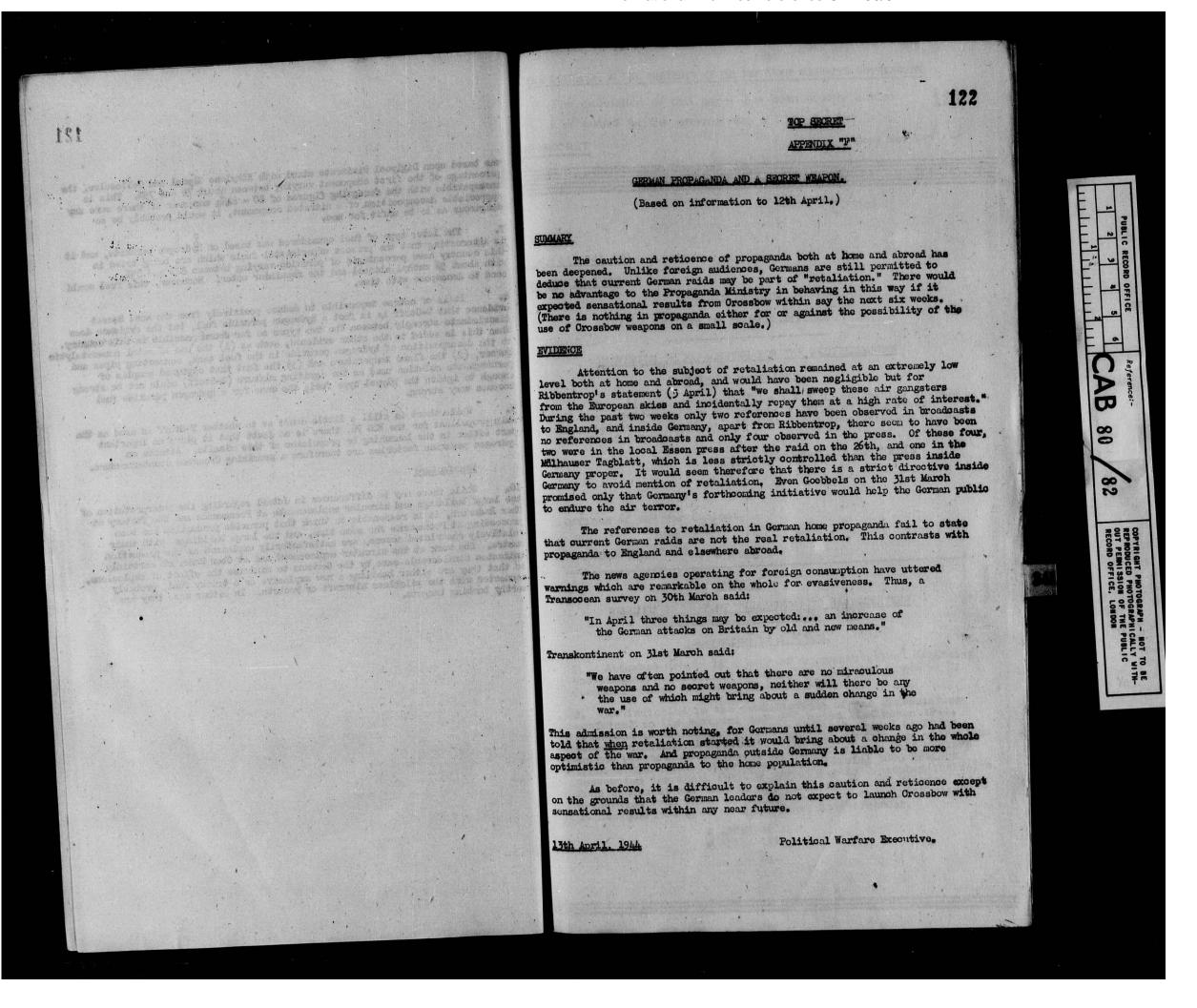
5. Obviously the containers have not been numbered for the purpose of listing after the percentages have been measured, because otherwise the concentrations would have been in strict numerical order. The omission of containers 11 and 12 would not be explained by this hypothesis, and suggests that the container numbering had some significance before the measurements were made. The simplest explanation is that the containers were numbered either on arrival at the airfield or on despatch from the factory, so that the higher numbers below to the later containers. 11 and 12 were missing perhaps because they had been used. If this explanation is correct, then it is evidence that the major component of T-Stoff does in fact decompose with time, confirming deduction (b)

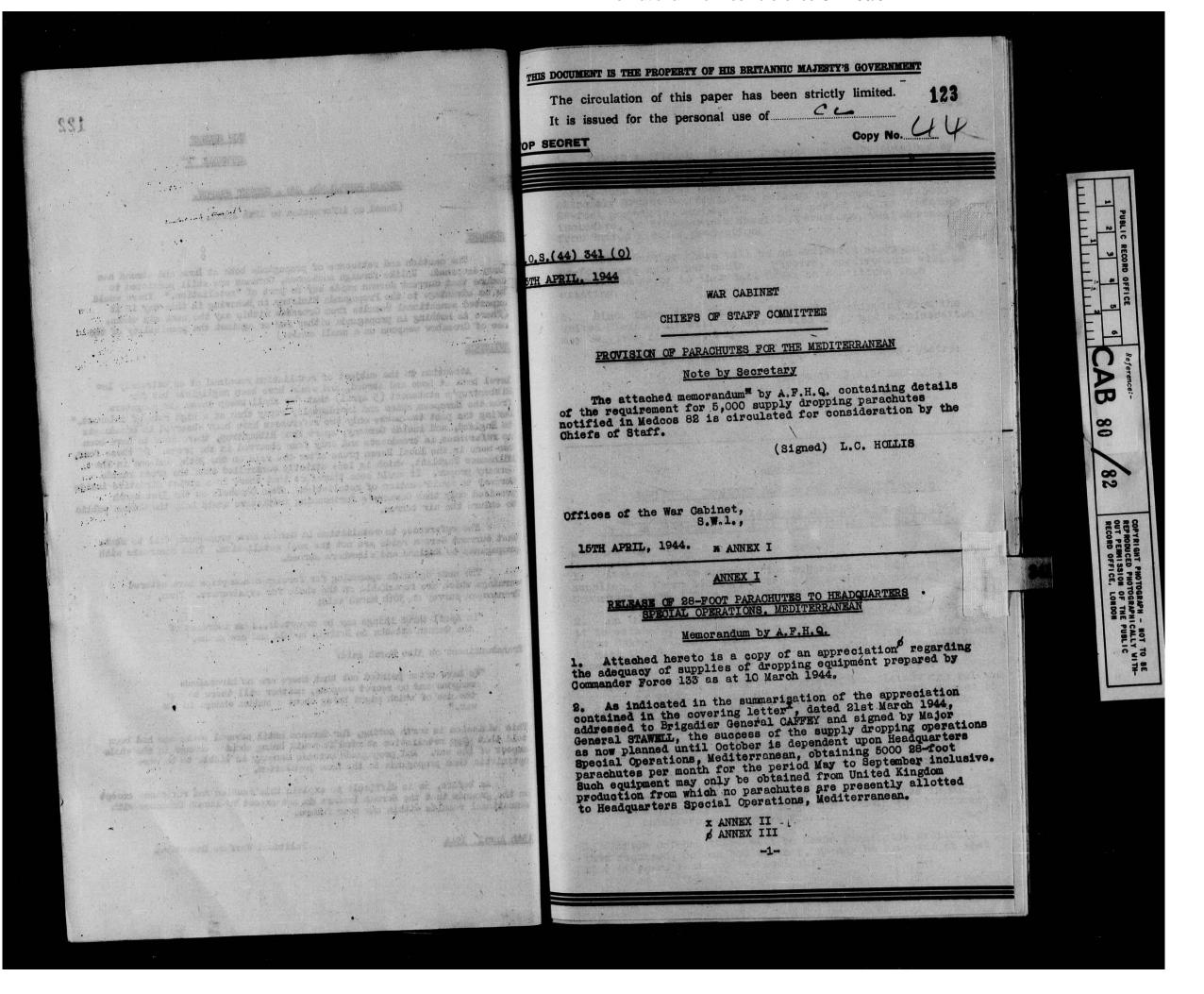
Nature of Fuel

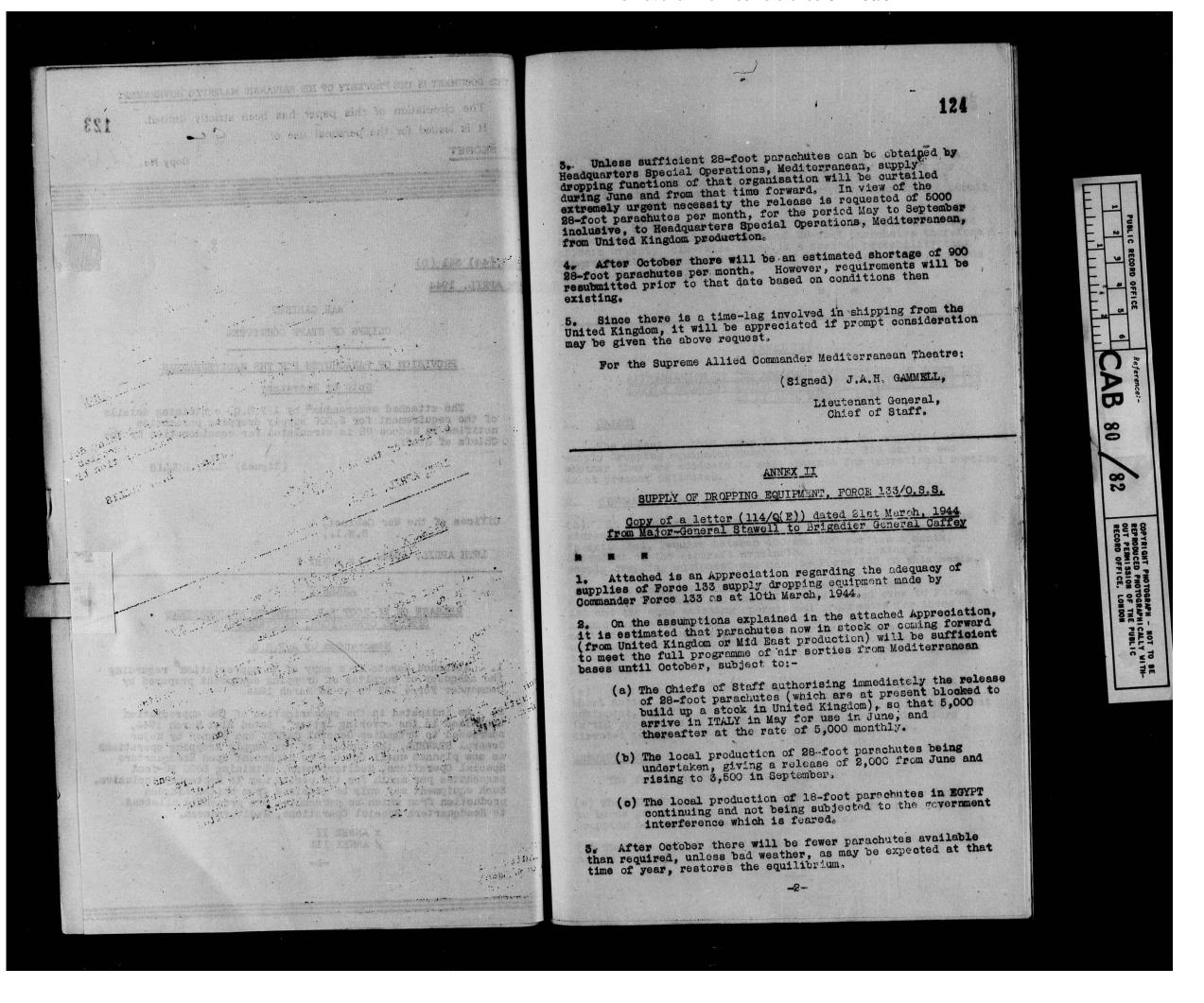
6. Two main types of fuel have been proposed as being T-Stoff. The earlier

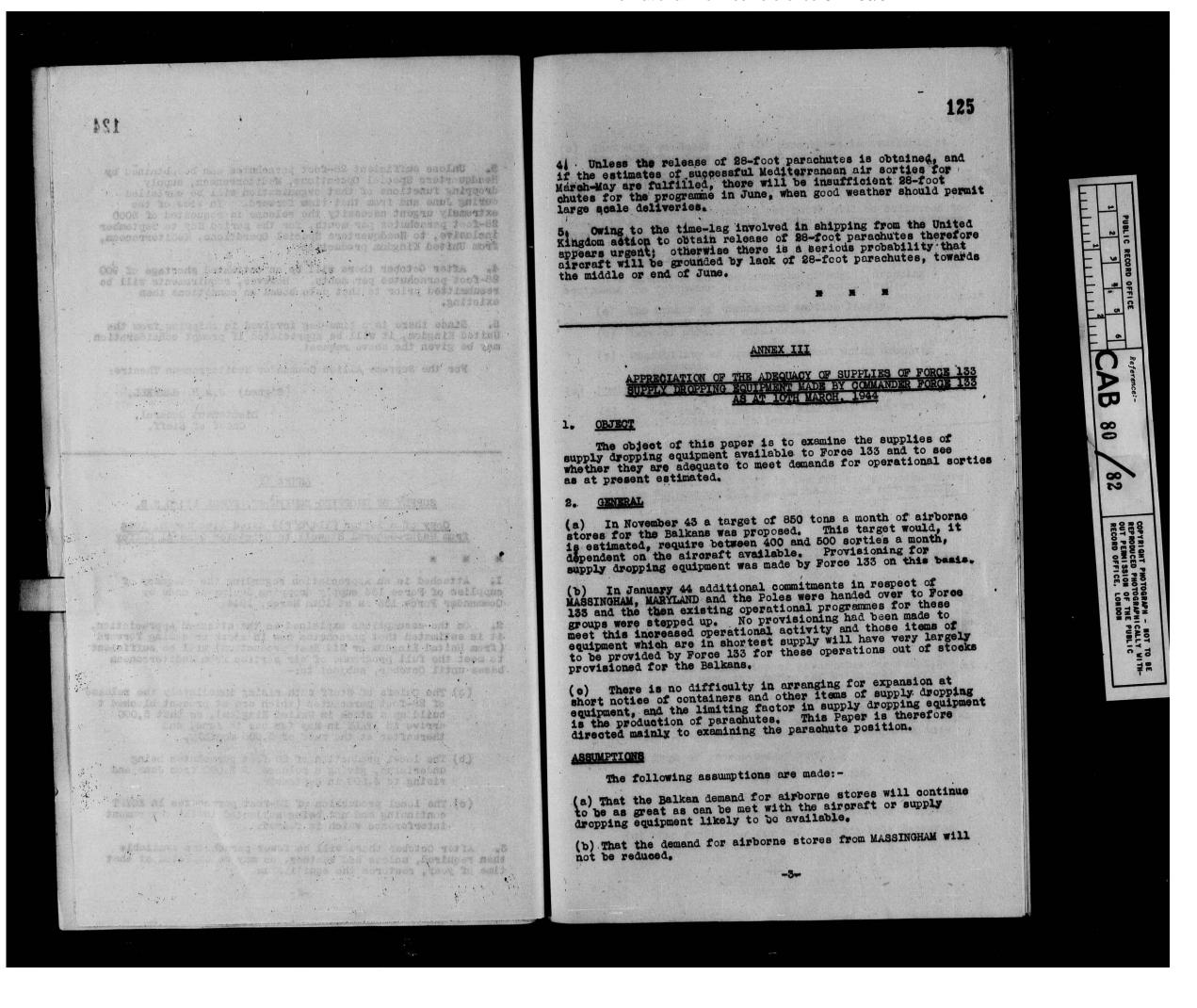
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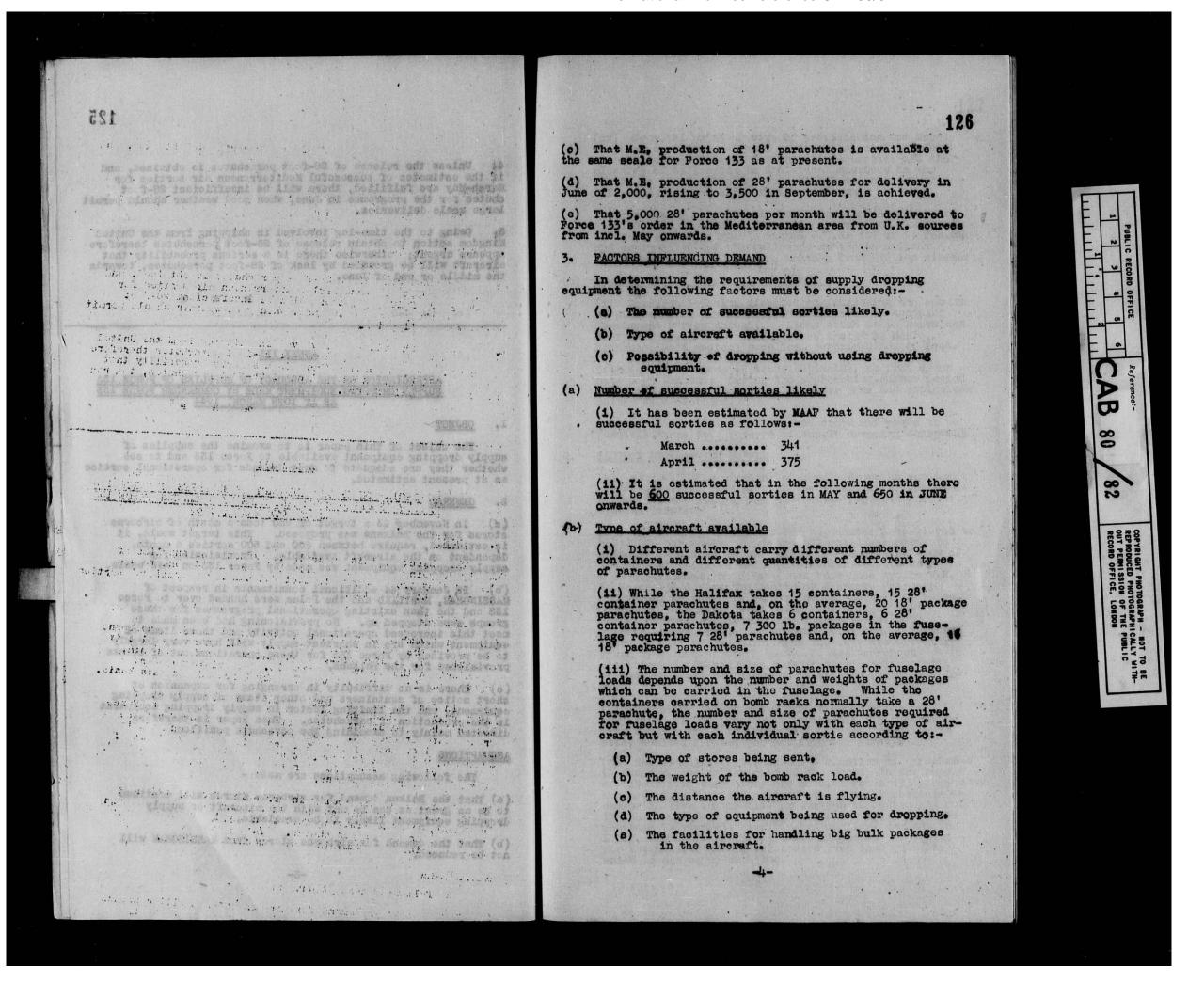


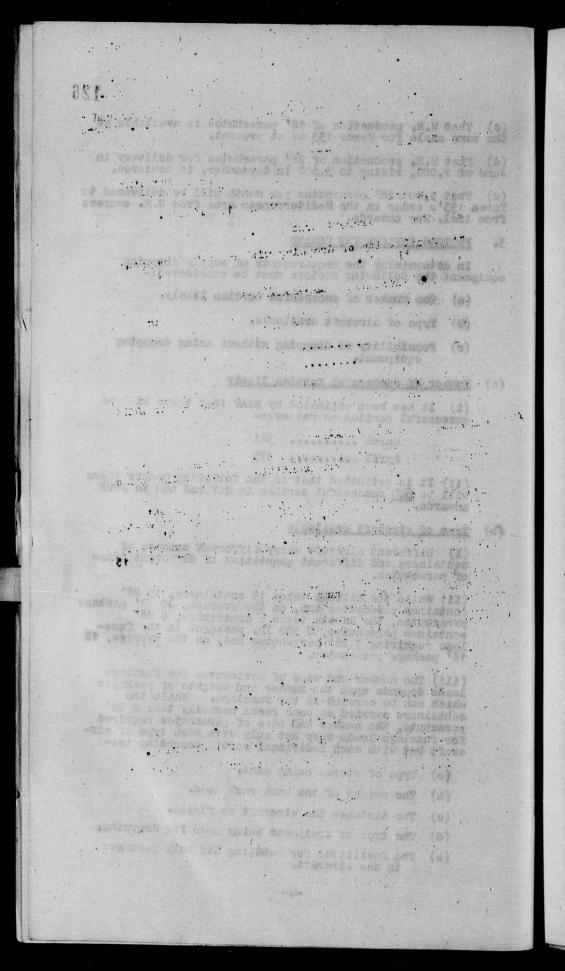












(iv) From the point of view of provisioning for supply dropping equipment, as well as from the point of view of preparation of loads for individual sorties and the planning of deliveries to individual missions in the Field, it is of advantage to restrict the numbers of different types of aircraft to a minimum.

(v) In making estimates in Appendices A and B, March and April consumption has been based on types and number of aircraft stated in MAAF's signal J.C.S. 117 of 11 Feb. 44 and consumption for the following months on Halifax sorties only plus 50 sorties monthly from Italian aircraft.

(c) Possibility of developing free drops

(1) Research is being directed to increasing the amount of stores which can be dropped without using dropping equipment ("free drops"). Items which it is known can be free-dropped safely are clothes including boots, blankets, soft medical supplies, certain kinds of food.

(ii) For the purpose of these estimates, no free drops have been assumed; during the approaching summer period it is assumed the demands will be for arms and explosives rather than clothing.

(iii) To the extent to which free drops may prove to be possible there is a reserve of supply dropping equipment.

4. FACTORS INFLUENCING SUPPLY

(a) All available supplies of supply dropping equipment are manufactured in M.E. with the exception of 28° parachutes and certain package parachutes required for special purposes.

(b) The U.K. production of 28' parachutes is believed to be 12,000 per month, which are allocated according to priority laid down by the Chiefs of Staff. In view of the present stock in the Mediterranean theatre of 20,000 perachites, no release has been made by the U.K. to Force 133 during the months of January, February and March, as there is such an acute shortage of these perachutes that release is being made only to meet actual operational demands and issues to build up reserve stocks are not at present permitted. Further releases will be dependent upon the relative priority given by Chiefs of Staff to S.O.E. Mediterranean operations. It has been assumed that a release will be made in April for delivery in Mediterranean area in May.

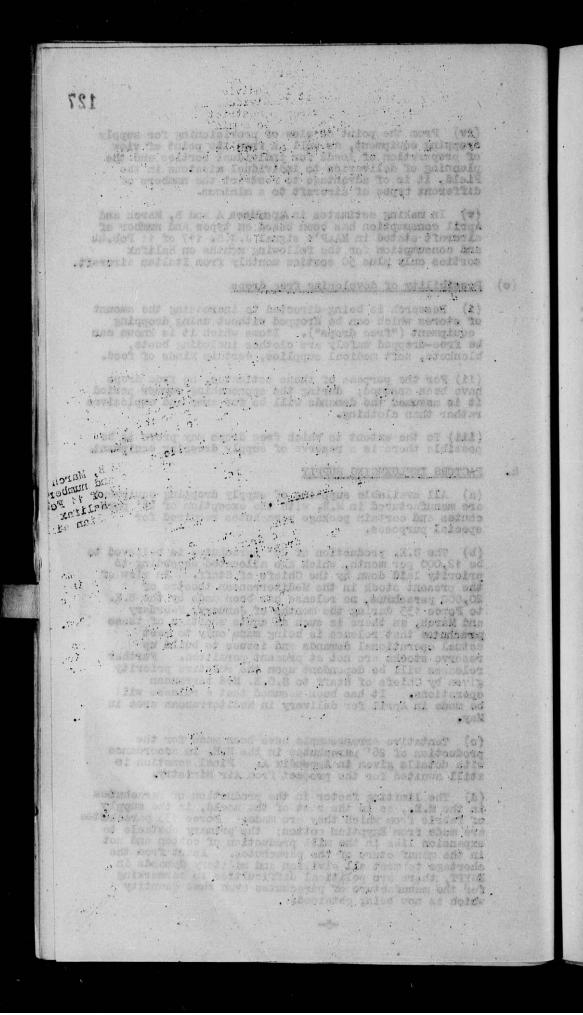
(c) Tentative arrangements have been made for the production of 28' parachutes in the M.E. in accordance with details given in Appendix A. Final sanction is still awaited for the project from Air Ministry.

(d) The limiting factor in the production of parachutes in the M.E., as in the rost of the world, is the supply of fabric from which they are made. Force 133 parachutes are made from Egyptian cotton; the primary obstacle to expansion lies in the mill production of cotton and not in the manufacture of the parachutes. Apart from the shortage to meet all civilian and military demands in EGYPT, there are political difficulties in earmarking for the manufacture of parachutes even that quantity which is now being obtained.

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(e) It has been assumed, however, that the present releases for 18' parachutes and the estimated production of 28' parachutes, which it is hoped will shortly be started, will not be thereby hindered.

5. ESTIMATED SUPPLY OF PARACHUTES

(a) 28' container parachutes (Forward position shown in Appendix A)

On the basis that:-

- (1) The U.K. will supply 5,000 28' parachutes per month deliverable Mediterranean theatre from inclusive May.
- (ii) The projected M.E. manufacture of 28' parachutes is successful and quantities will be available at the rate of -

June - 2,000; July - 2,500; August - 3,000; September - 3,500;

it is estimated that sufficient 28' parachutes will be available until October to mount the sortic requirements assumed; thereafter there will be a deficiency of 900 per month if the same number of sorties is required.

(b) 18' parachutes. (Forward position shown in Appendix B)

- (1) On the assumption that the present rate of deliveries at 10,000 18' package parachutes a month will be maintained, it is estimated that sufficient will be available to mount until July the sortic requirements assumed.
- (ii) In August there would be a deficit of 696, and in September and months thereafter a deficit of 3,500.
- (111) It is estimated that this deficit would until mid-October be offset by the use of a stock of 9,500 sound parachutes of obsolete pattern now held. (These parachutes are sound but their weight-carrying capacity is inefficient compared with the present and projected series of parachutes).
- (iv) In making the above estimate no credit has been taken for free drops.
- (v) April deliveries show estimated reduction of 2,000 parachutes, owing to a change over in production to a new series parachutes.
- (vi) Attempts are being made to obtain an increase of 2,000 per month from inclusive May of the new series parachutes, but as it is not certain that this production will be available to Force 133 it is being disregarded.

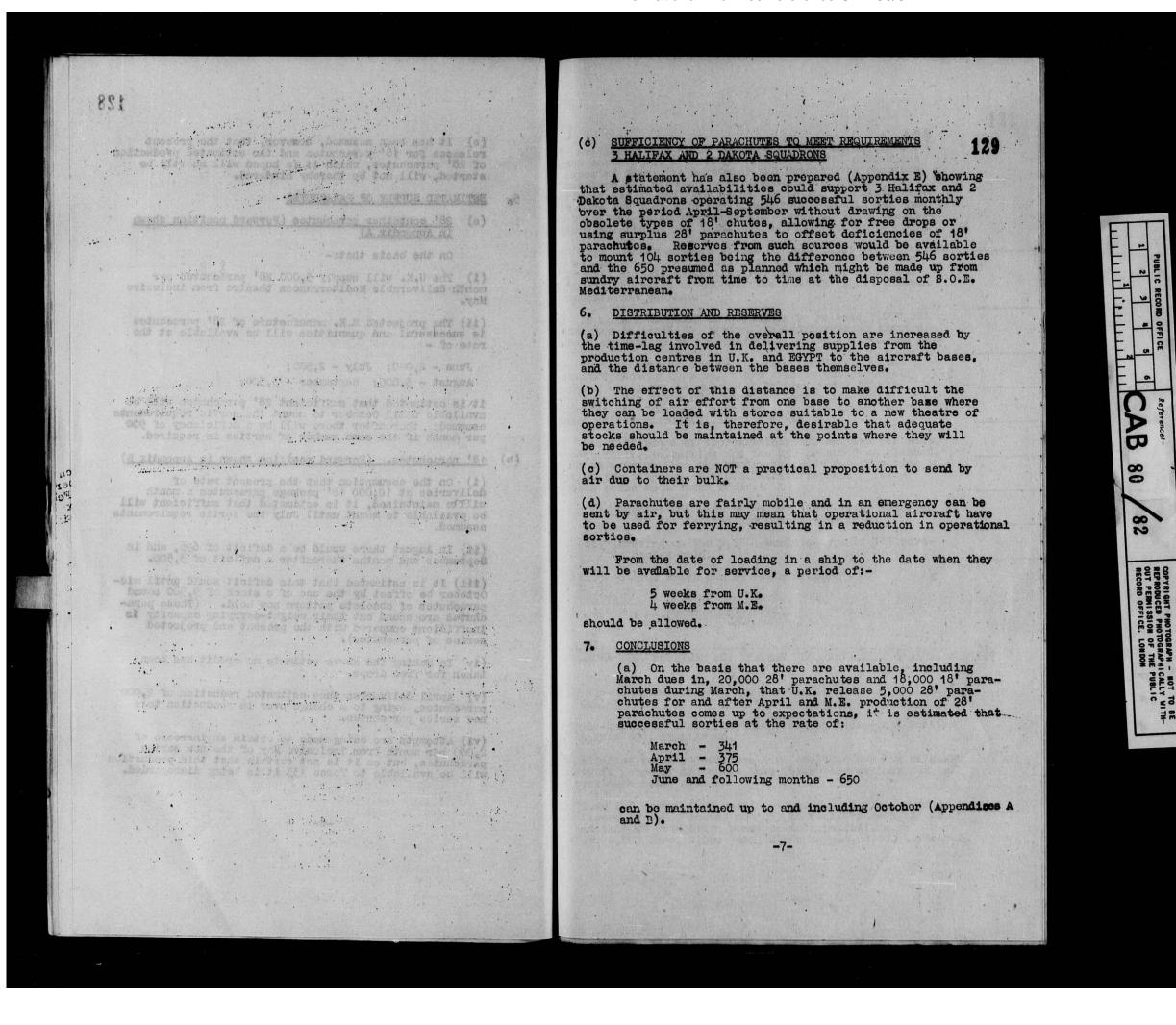
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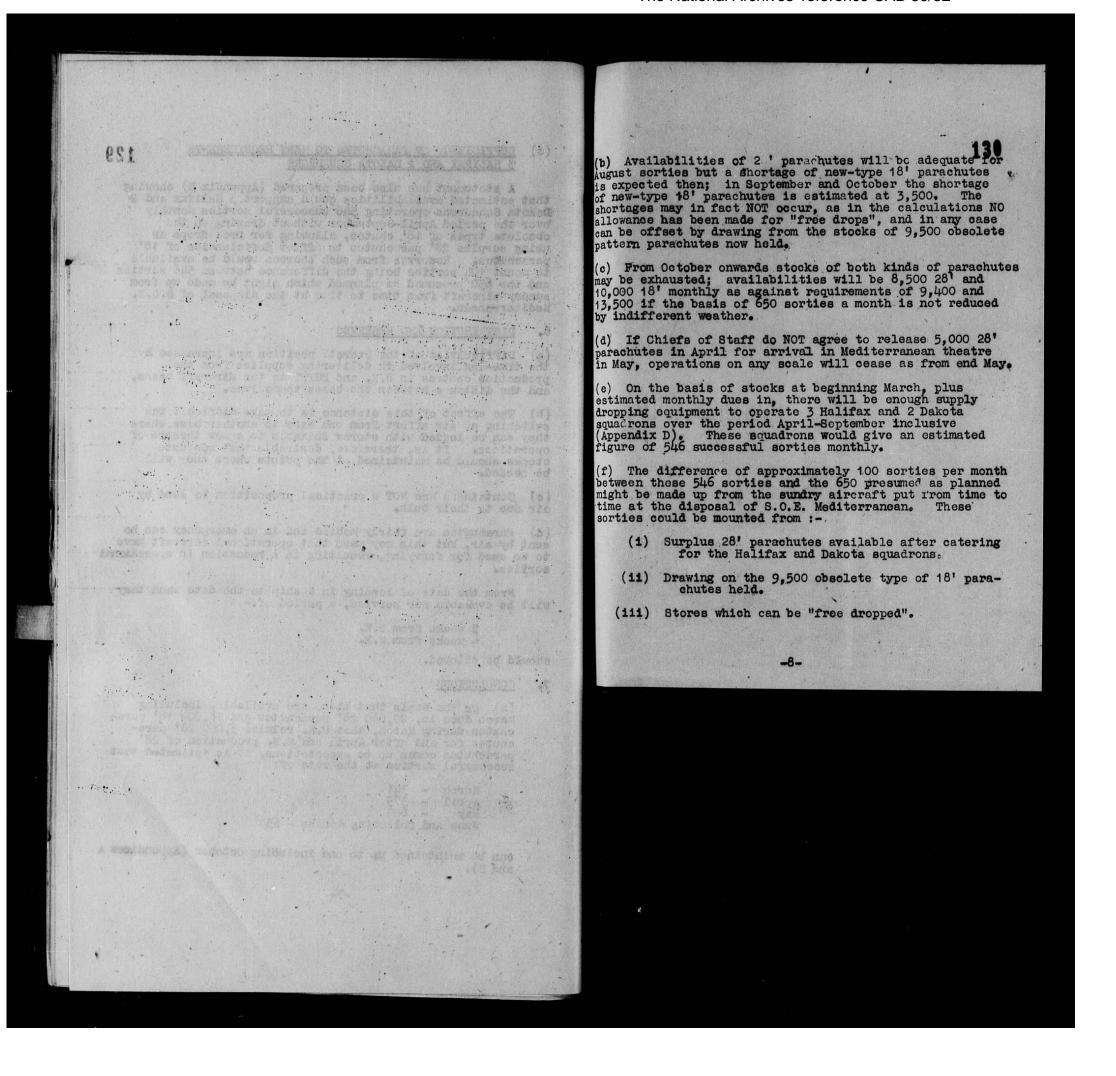
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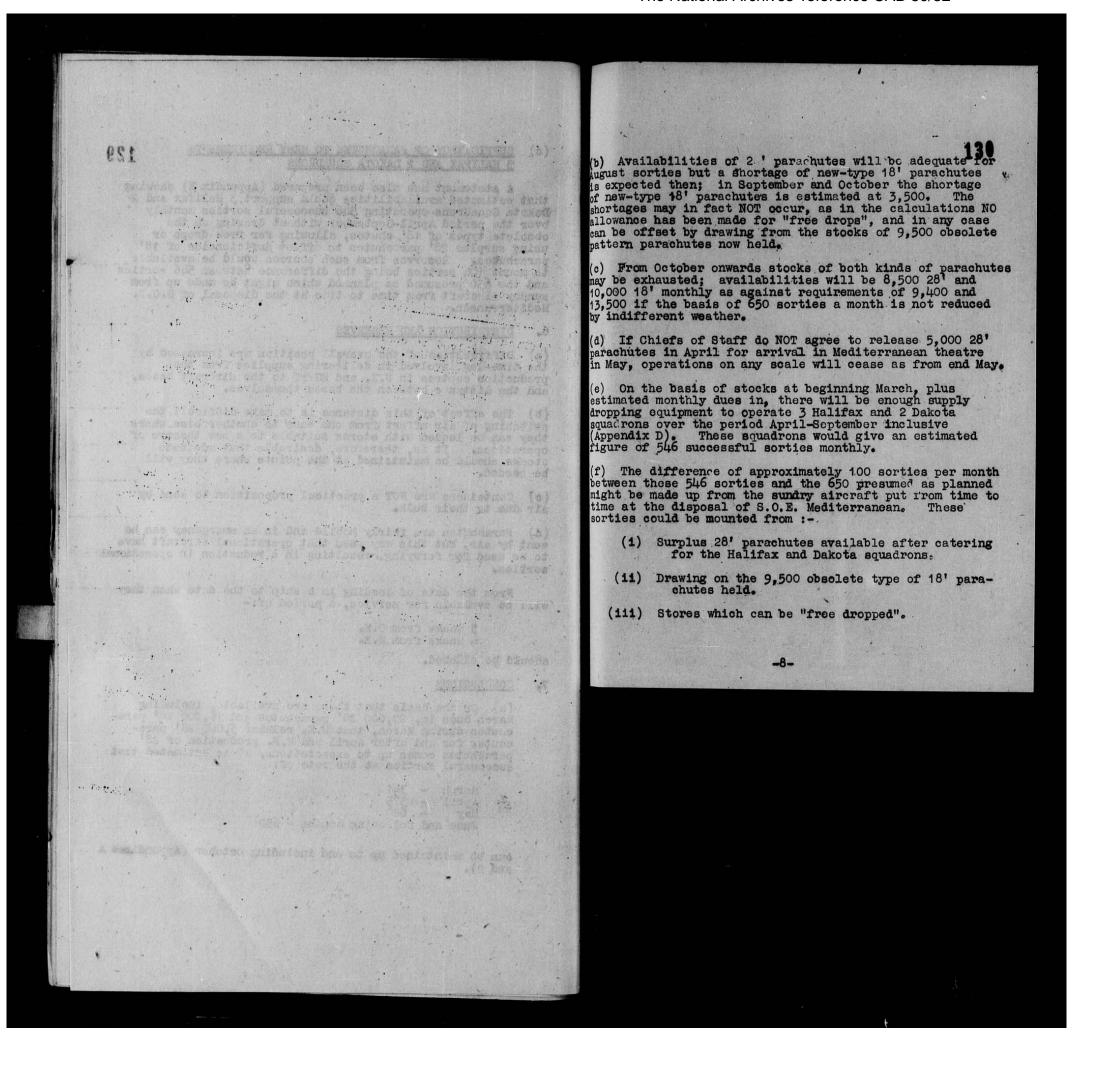
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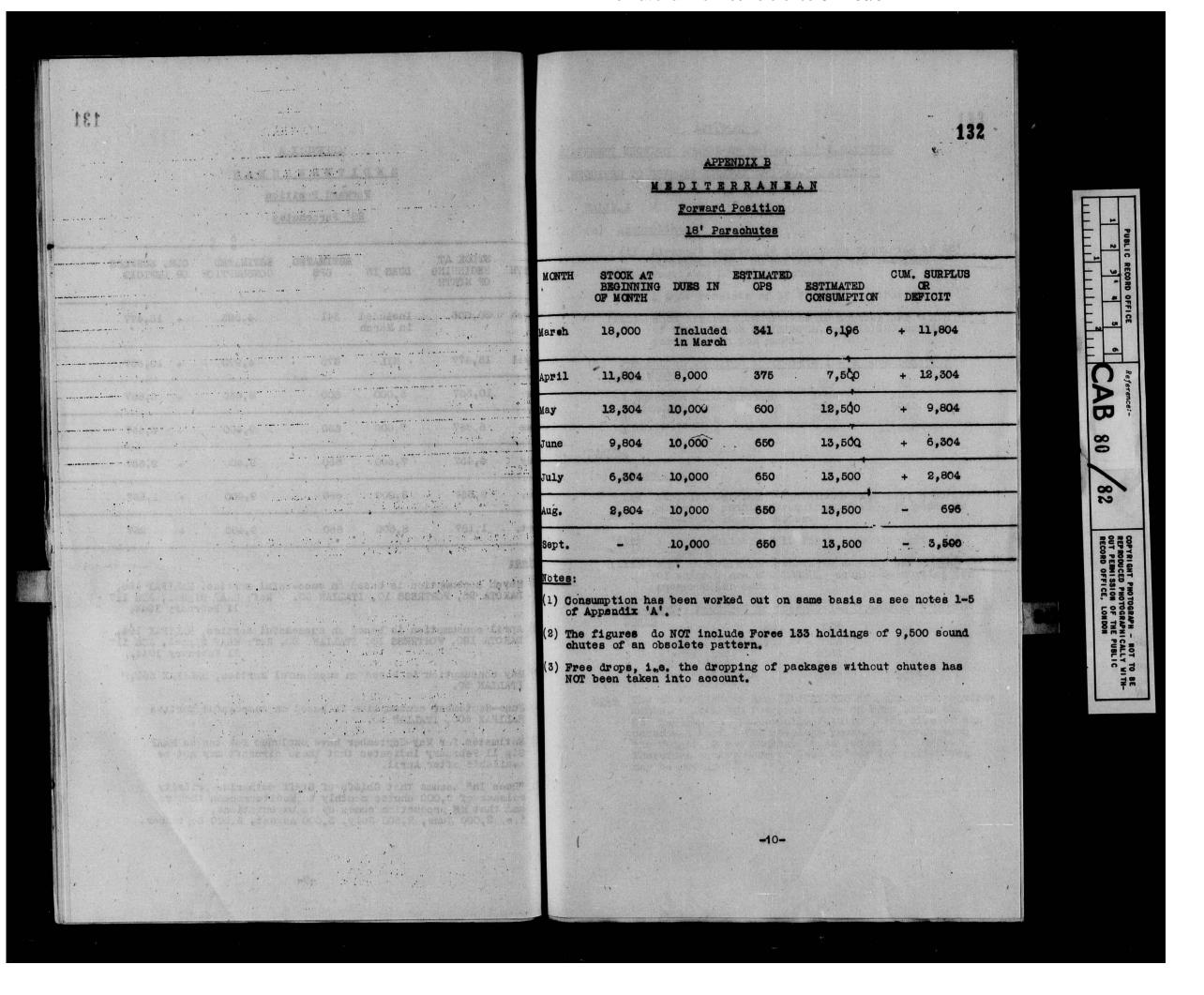
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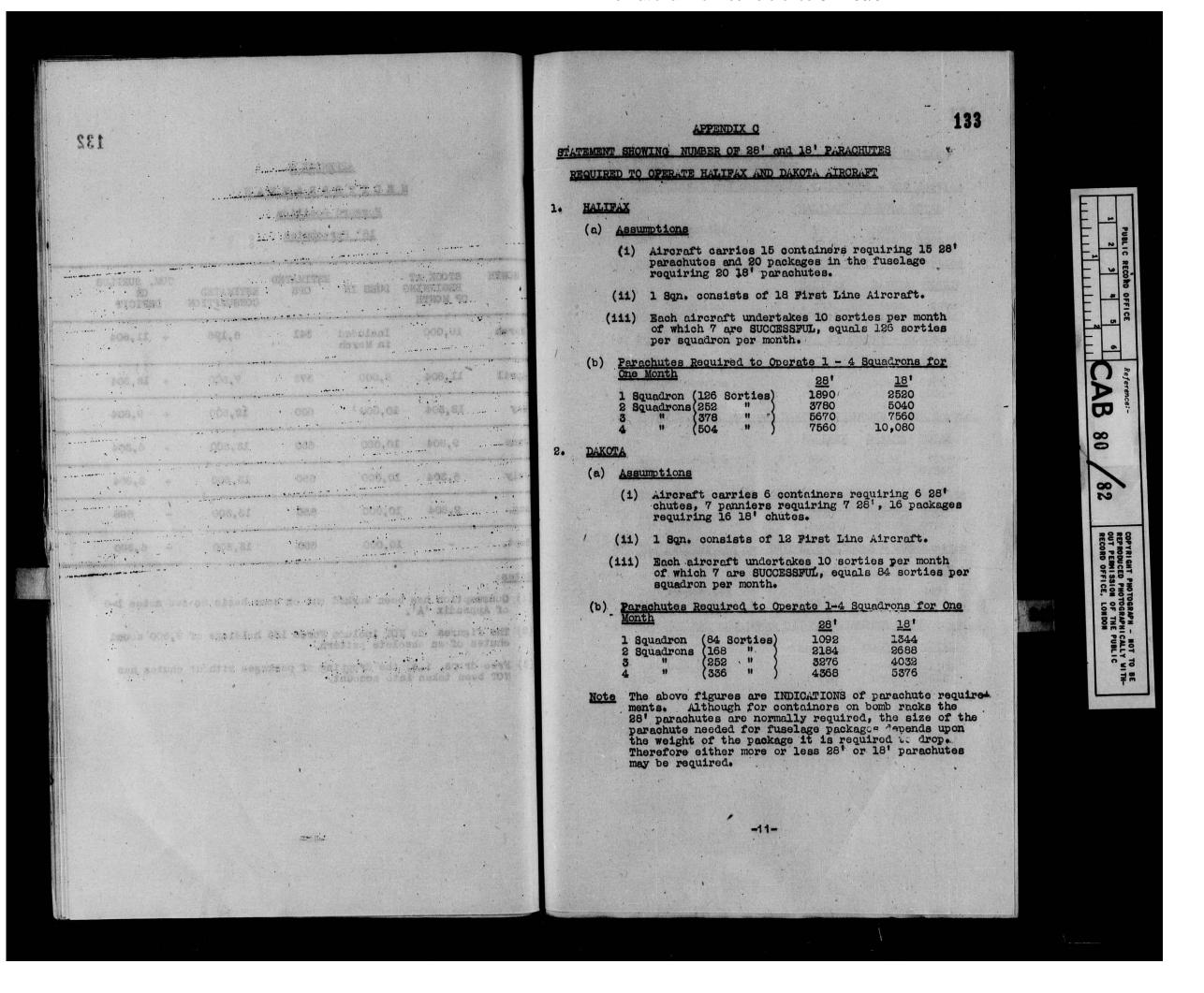


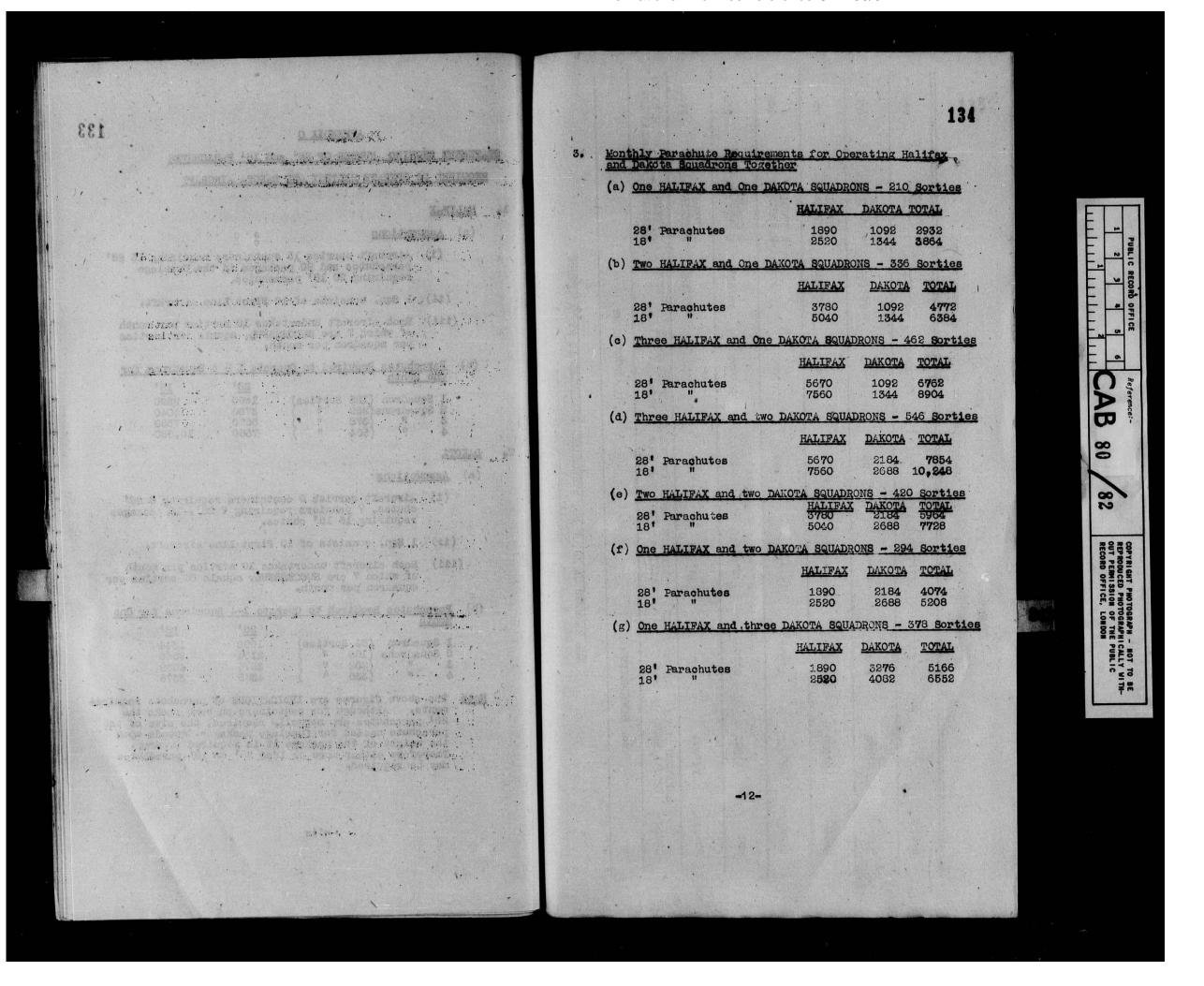


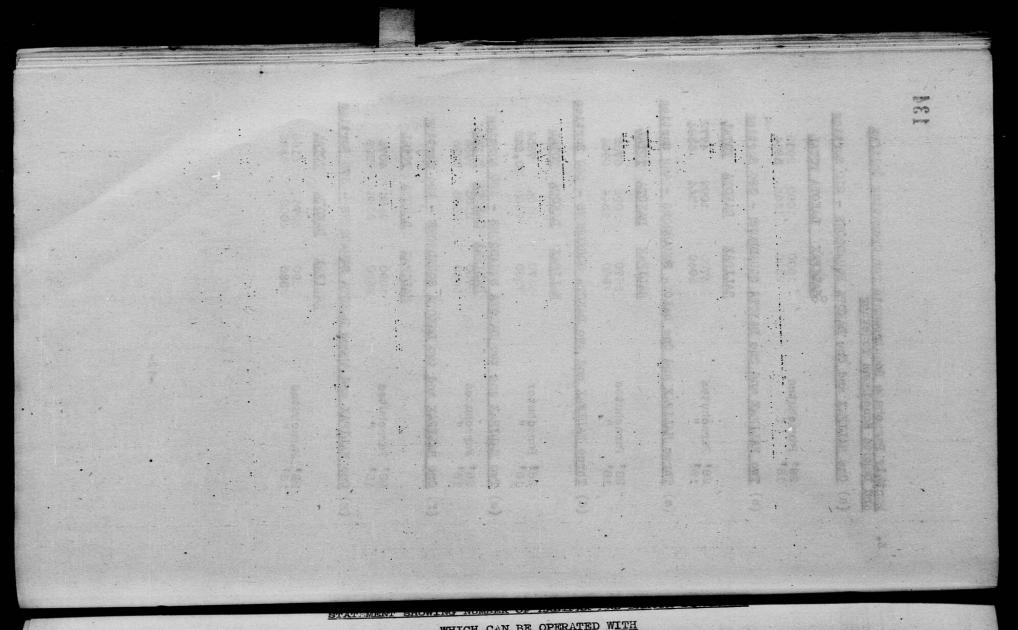


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WHICH CAN BE OPERATED WITH THE NUMBERS OF 18' & 28' PARACHUTES ESTIMATED TO BE AVAILABLE

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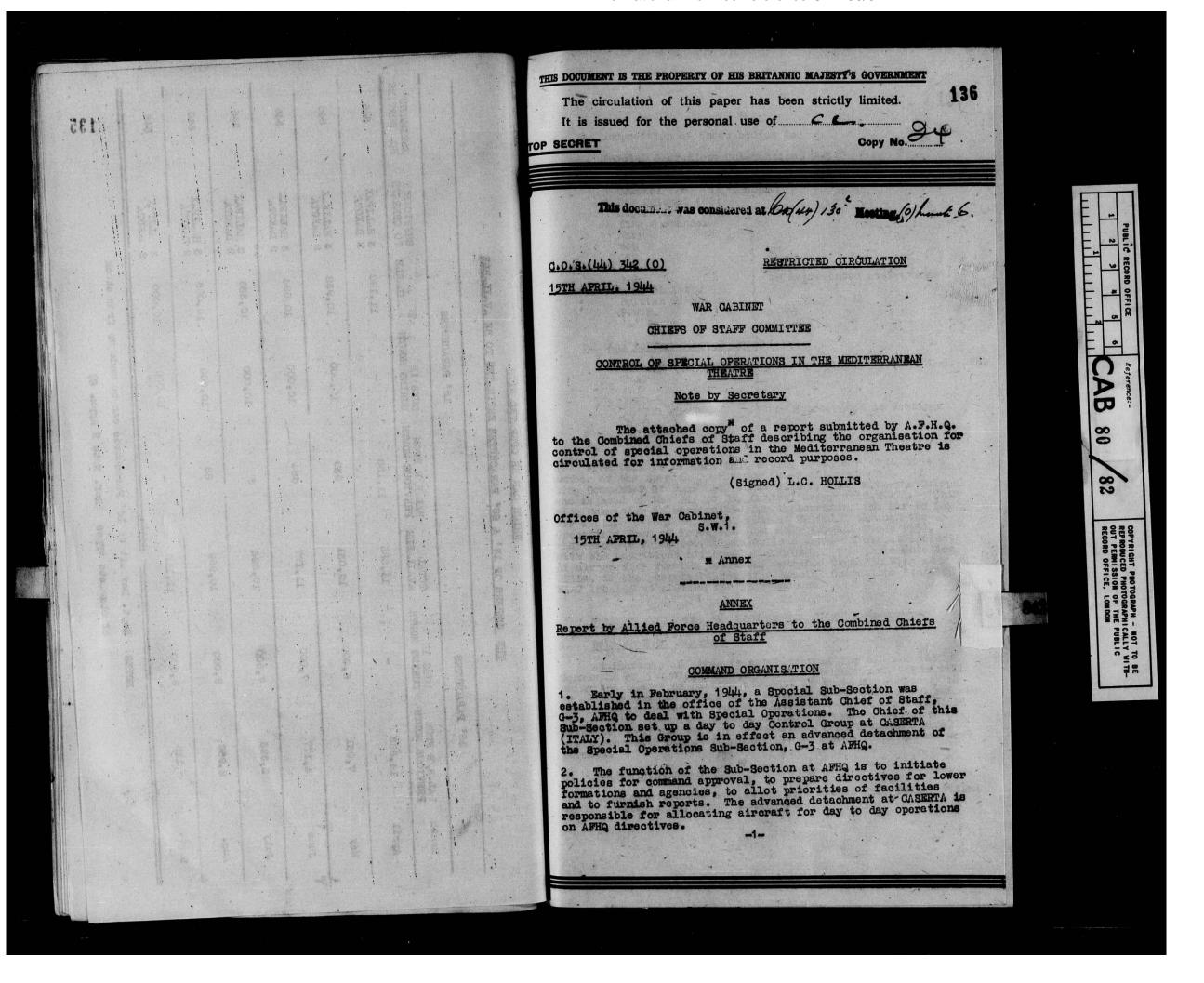
NOTES: Sept. Deficit of 18' Parachutes can be made up from stock of obsclete types (Ref. Note 2 Appx. C)

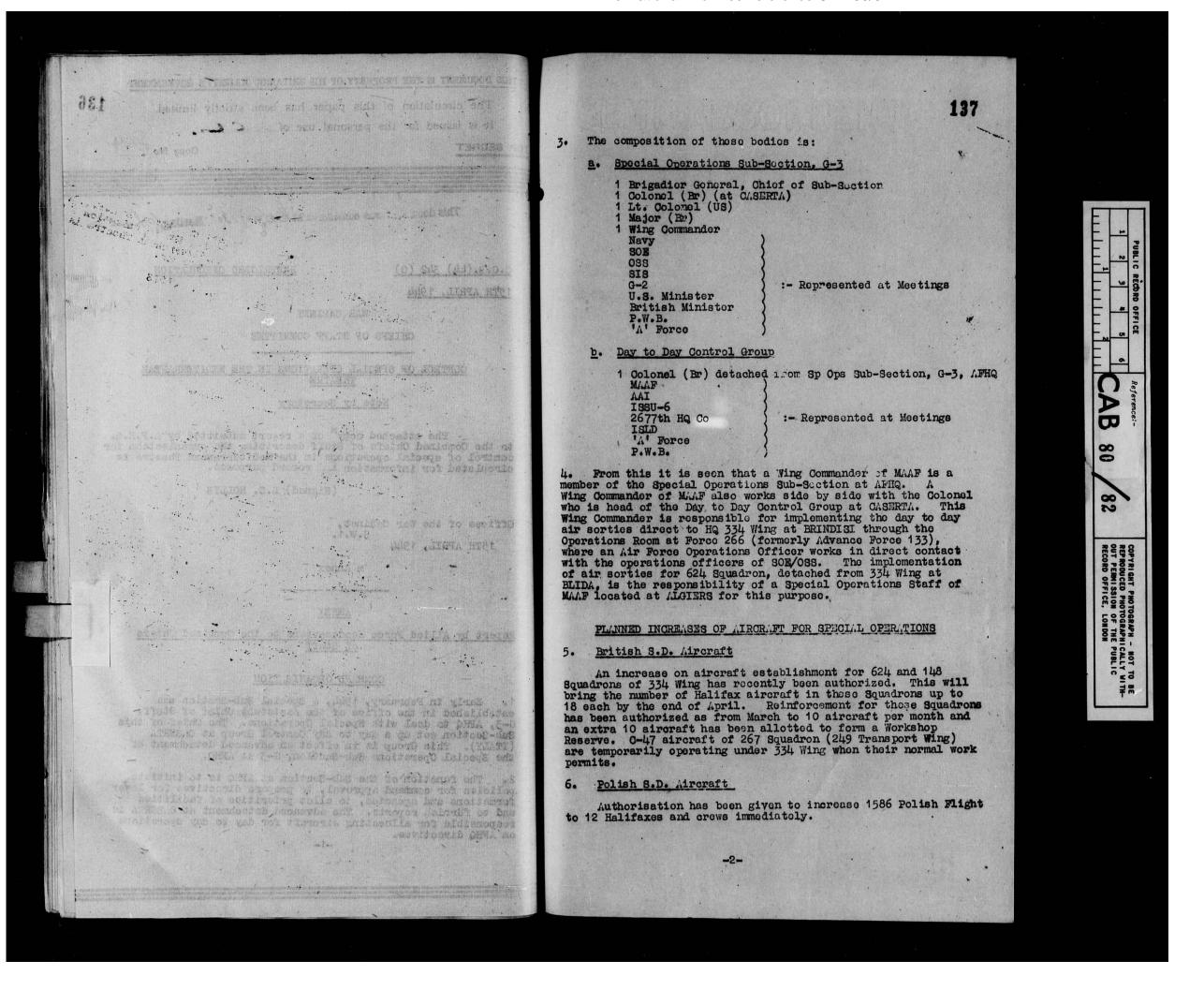
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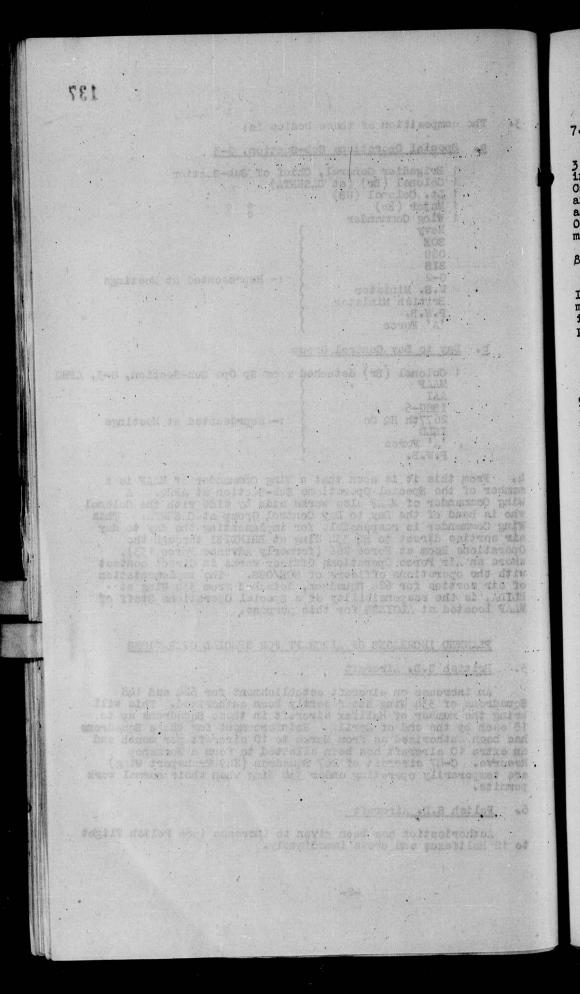
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7. American S.D. Aircraft

68 Recommaissance Group at present consists of 7 B-25's and 5 B-17's, but the intention is to augment the B-17's by 15 B-24's in the near future. Numbers 51 and 7 Squadrons of the 51st Troop Carrier Wing have been assigned temperarily to Special Operations and Number 8 Squadron of Troop Carrier Command has 4 aircraft assigned to these duties. These aircraft may be lost to Special Operations in the event of their being required for normal military airborne operations.

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8. Italian S.D. aircraft

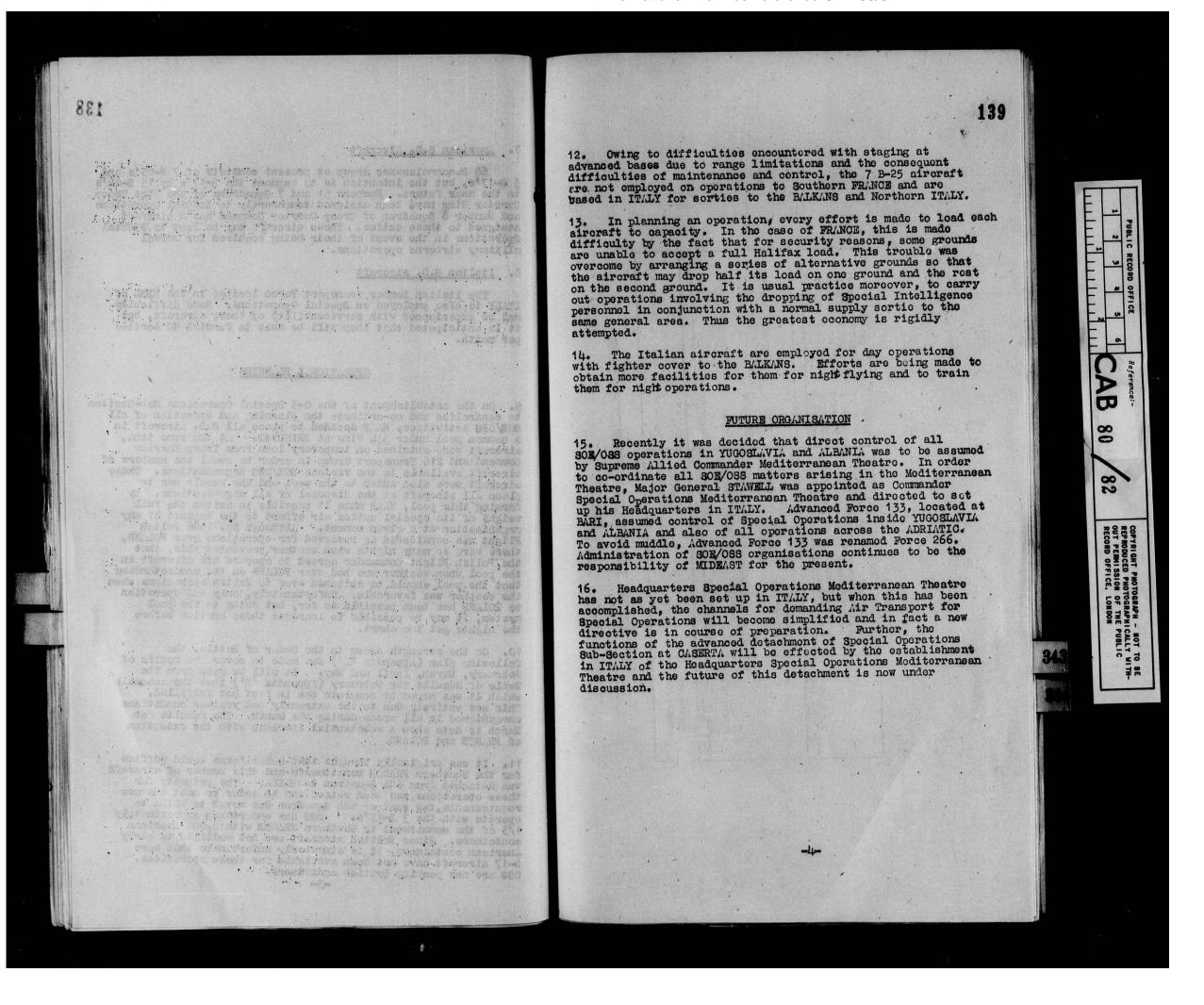
The Italian Bomber Transport Force located in the HEEL of ITALY is also employed on Special Operations. Some difficulty may be experienced with serviceability of these aircraft, but it is anticipated that they will be able to furnish 50 sorties per month.

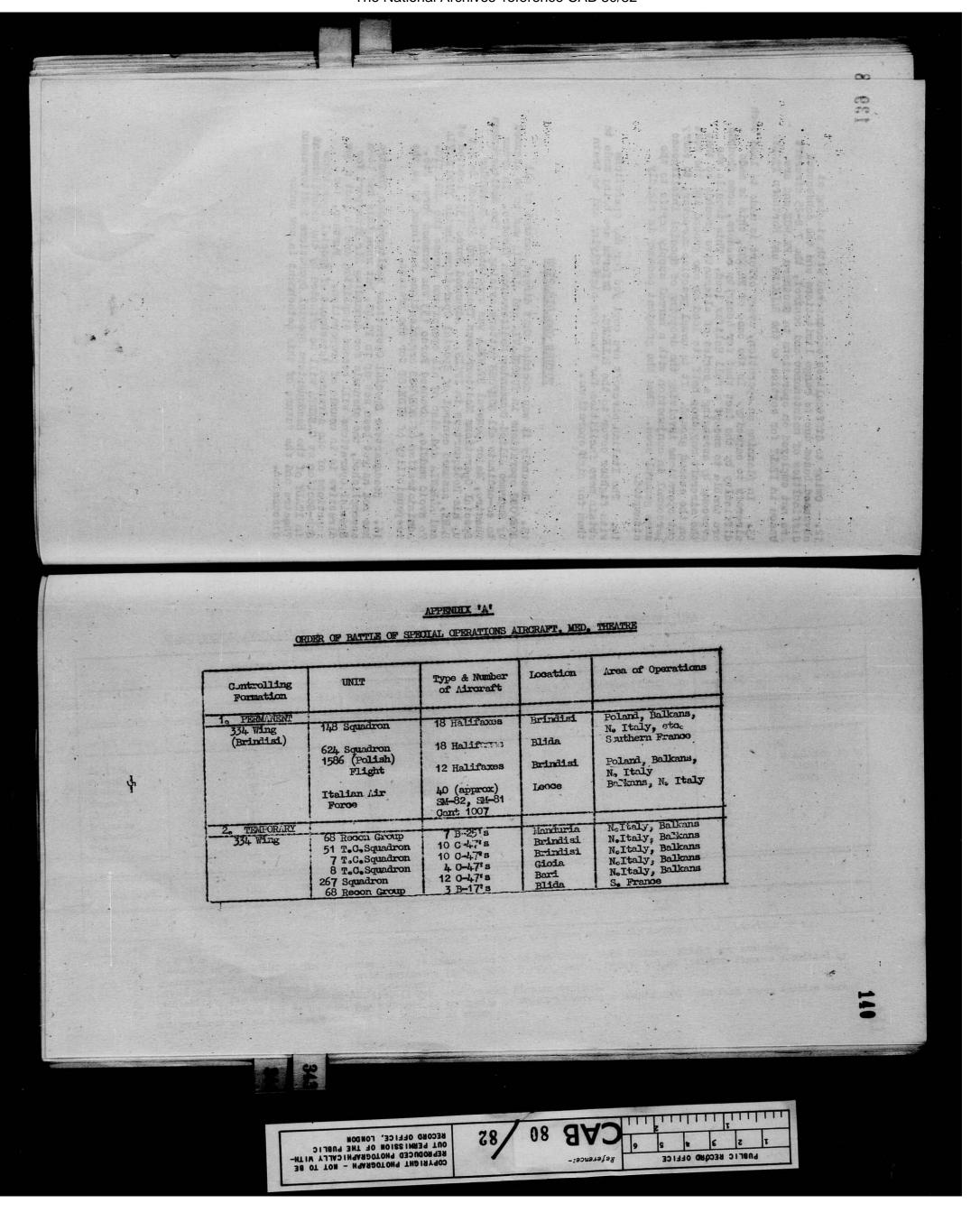
OPERATIONAL PLANNING

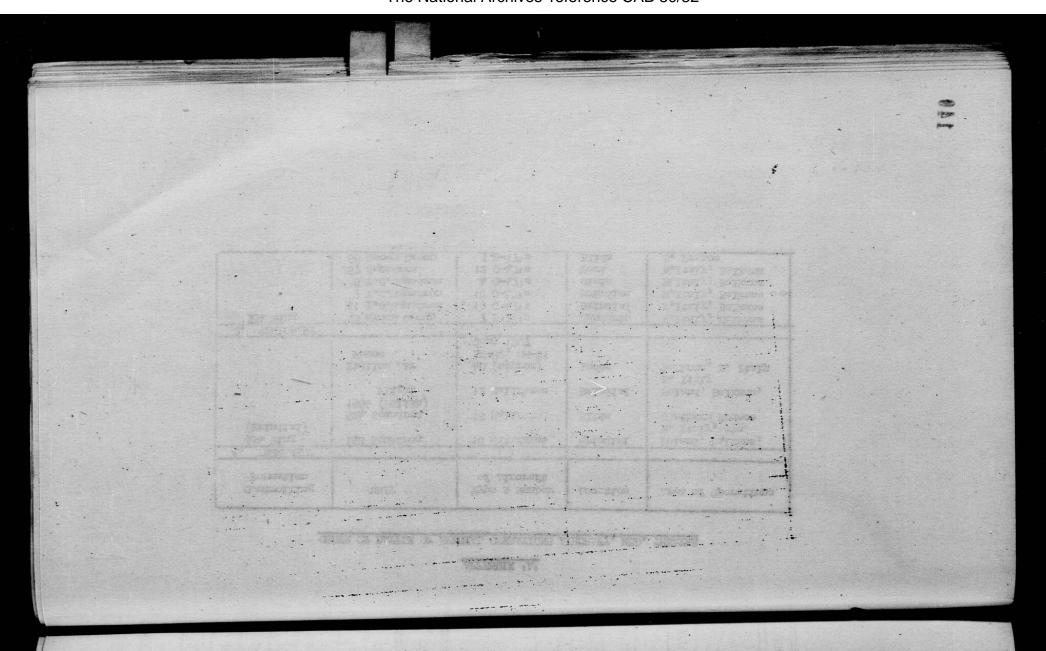
9. On the establishment of the G-3 Special Operations Sub-Section to centralize and co-ordinate the planning and execution of all SOE/OSS activities, MALF decided to place all S.D. Aircraft in a common pool under 334 Wing at BRINDISI. At the same time, aircraft were obtained on temporary loan from Troop Carrier Command and 216 Transport Group in order to swell the numbers of aircraft available to the various SOE/OSS organisations. These aircraft were also added to the pool and the result was to place all aircraft at the disposal of all organisations. By forming this pool, MAAF made it possible to switch the full weight of its special duties air effort to the support of any organisation at a given moment. Although No. 1586 Polish Flight was considered as reserved for operations over POLAND, there were so many nights when weather prevented this, that the Polish Flight Commander agreed to operate his aircraft in the pool when weather was bad over POLAND on the understanding that the pool should be switched over to Polish operations when the weather was favorable. Unfortunately, only one operation to POLAND has been possible so far, but owing to the pool system, it may be possible to increase those sorties before the nights get too short.

10. On the strength shown in the Order of Battle, the following plan (Appendix 'A') was made to cover the months of February, March, April and May. It will be seen from the Table of Results for February (Appendix 'B') that the schedule which it was hoped to complete was in fact not fulfilled. Which it was entirely due to the extremely bad weather conditions This was entirely due to the extremely bad weather conditions encountered in all areas during the month. The results for March to date show a substantial increase with the exception of FRANCE and POLAND.

11. It was originally thought that 4 Halifaxes would suffice for the Southern FRANCE commitments and this number of aircraft was detached from 624 Squadron to ELIDA. The priority for these operations was then raised and in order to meet the new these operations was then raised and in order to ELIDA to requirements, the rest of 624 Squadron was moved to ELIDA to requirements, the rest of 624 Squadron was moved to ELIDA to requirements, the rest of 624 Squadron was moved to ELIDA to requirements, the 3 B-17's. OSS has undertaken approximately operate with the 3 B-17's. OSS has undertaken approximately operate. Since British aircraft are not modified to carry American containers, it is singularly unfortunate that more B-17 aircraft have not been available for these operations. OSS are now packing British containers.







APPENDIX BE

South Fra

No Italy Poland Greece Yugoslavi Albania Bulgaria

Roumania

Hungary Czechoslovakia

NOTES:

				ATTOCATTON	OF SPECIAL	OPERATION	S AIR SORT	TES - 15 F	ebruary 194	<u>.</u>		•
	REQUIREMENTS, AVAILABILITY AND			MAROH			APRIL			MAY		
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312 180 180 180 SUB-TOTAL 354 37: 350 432 1. Availability figures for S. France, and all other areas ambined, are shown separately in view of the location of the aircraft. - HIDA 250

230

- Balkan

- Countries)

230

ai craft. - BLIDA

Resources of 334 Wing, 51 Troop Carrier Wing, Italian a roraft, 68 Ron Group, 1586 (Polish) Flight are included.

Requirements for BALKANS are based on ME estimates (or 10 3600, 8 Feb), for S, France and N. Italy on figures submitted by ISSU-6 and OSS and approved by G-3 (Special Operations).

IN Marshal Slessor to AFHQ.

In fact these sorties were realistributed to the BALKANS as shown above.

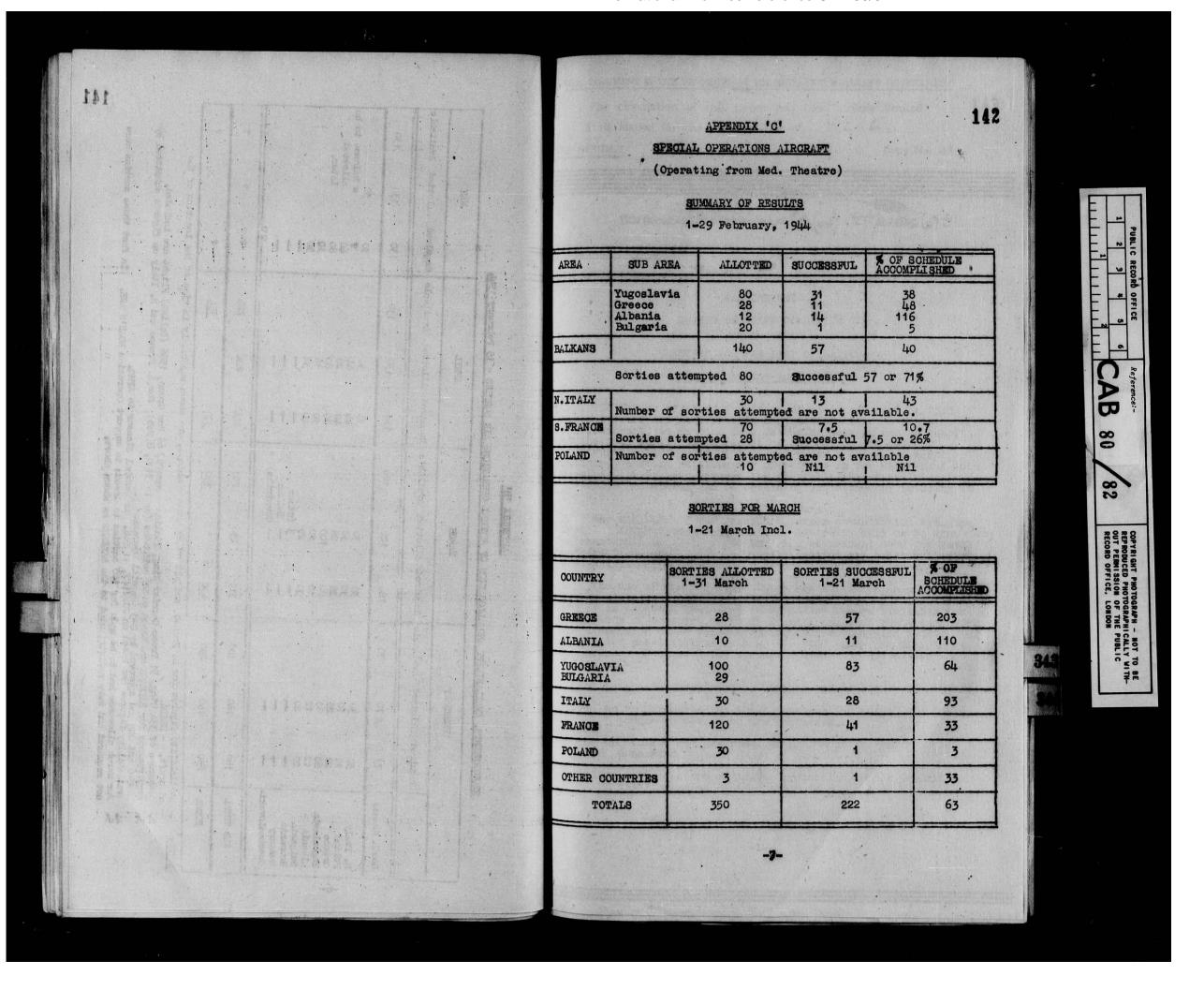
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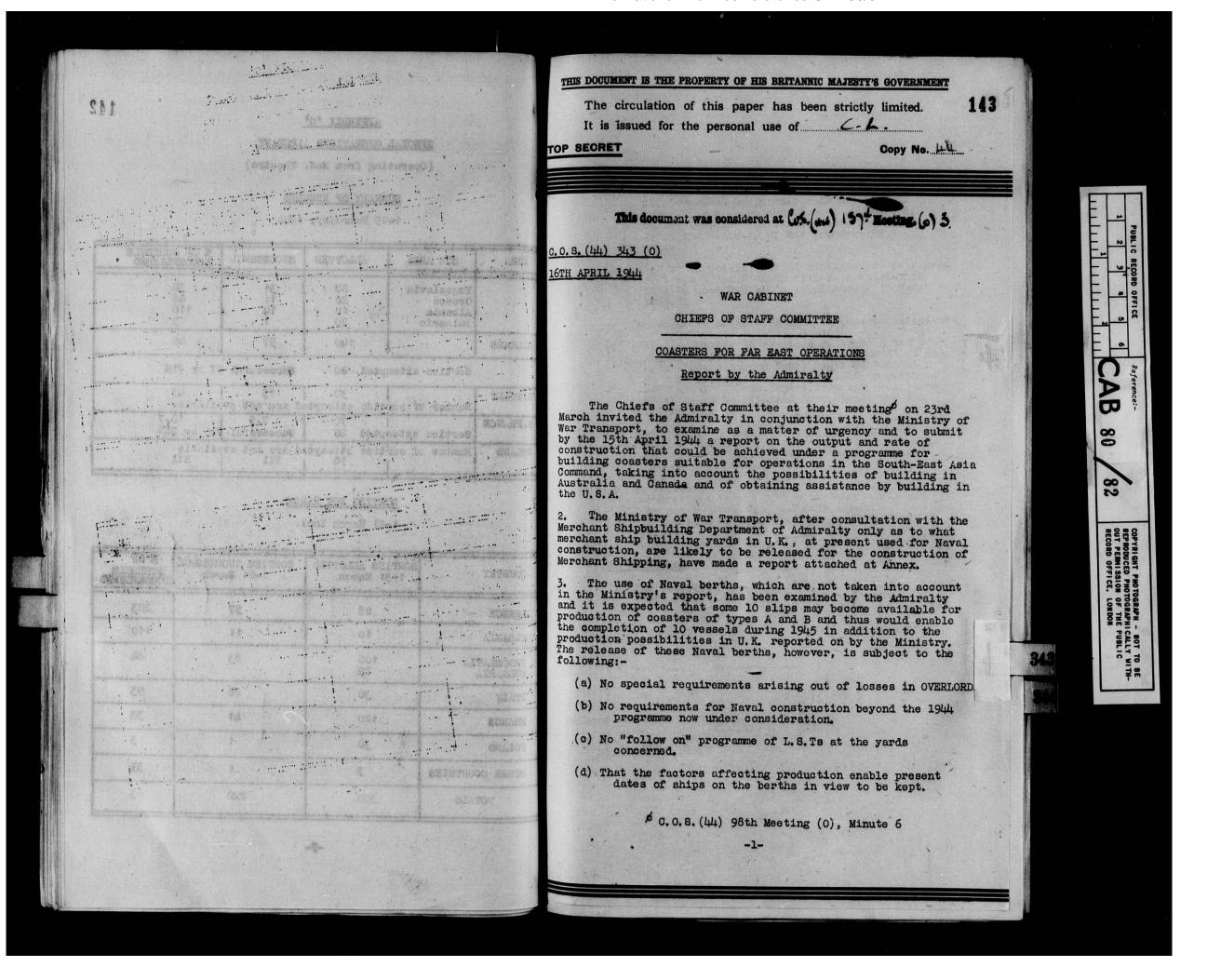
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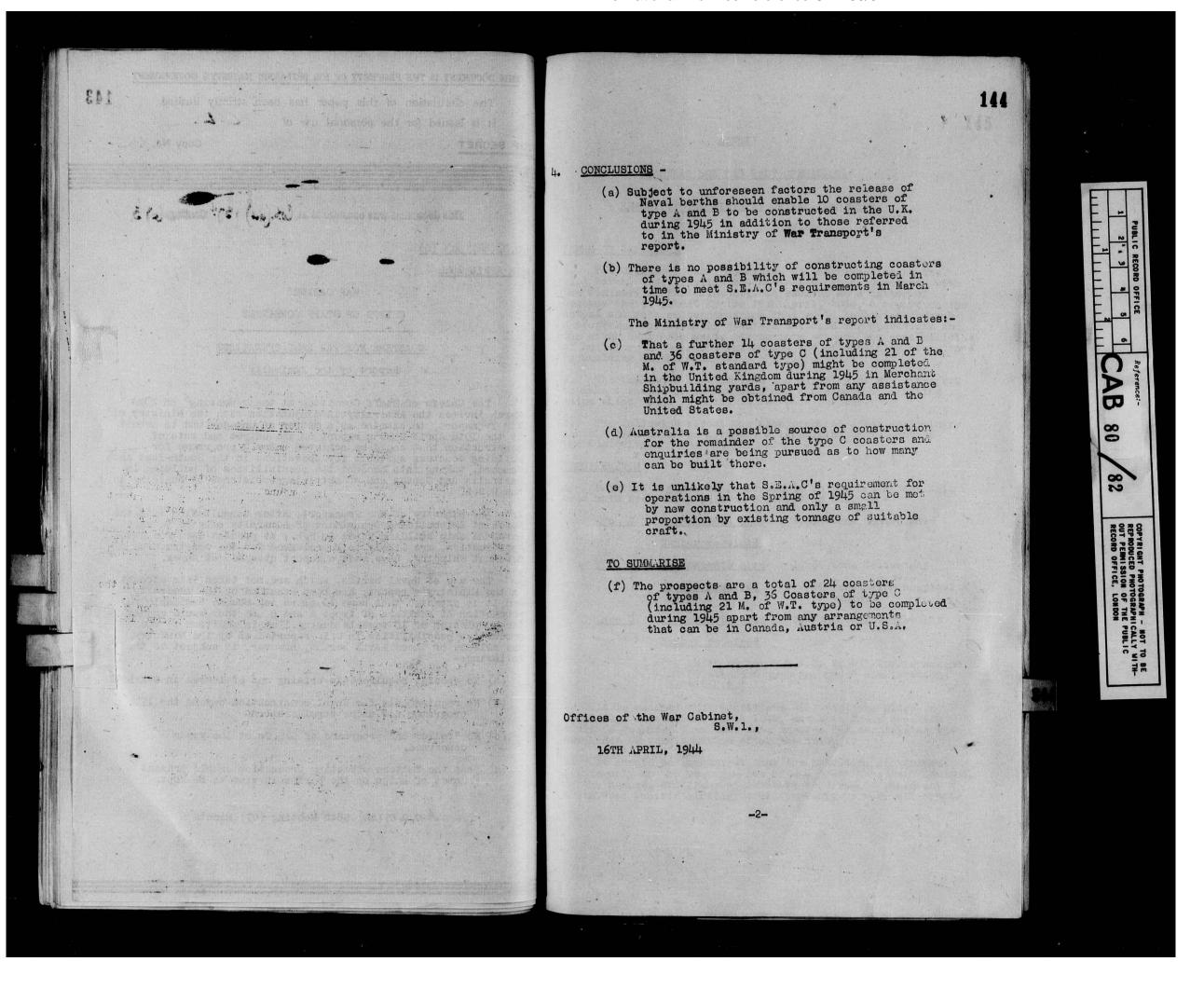
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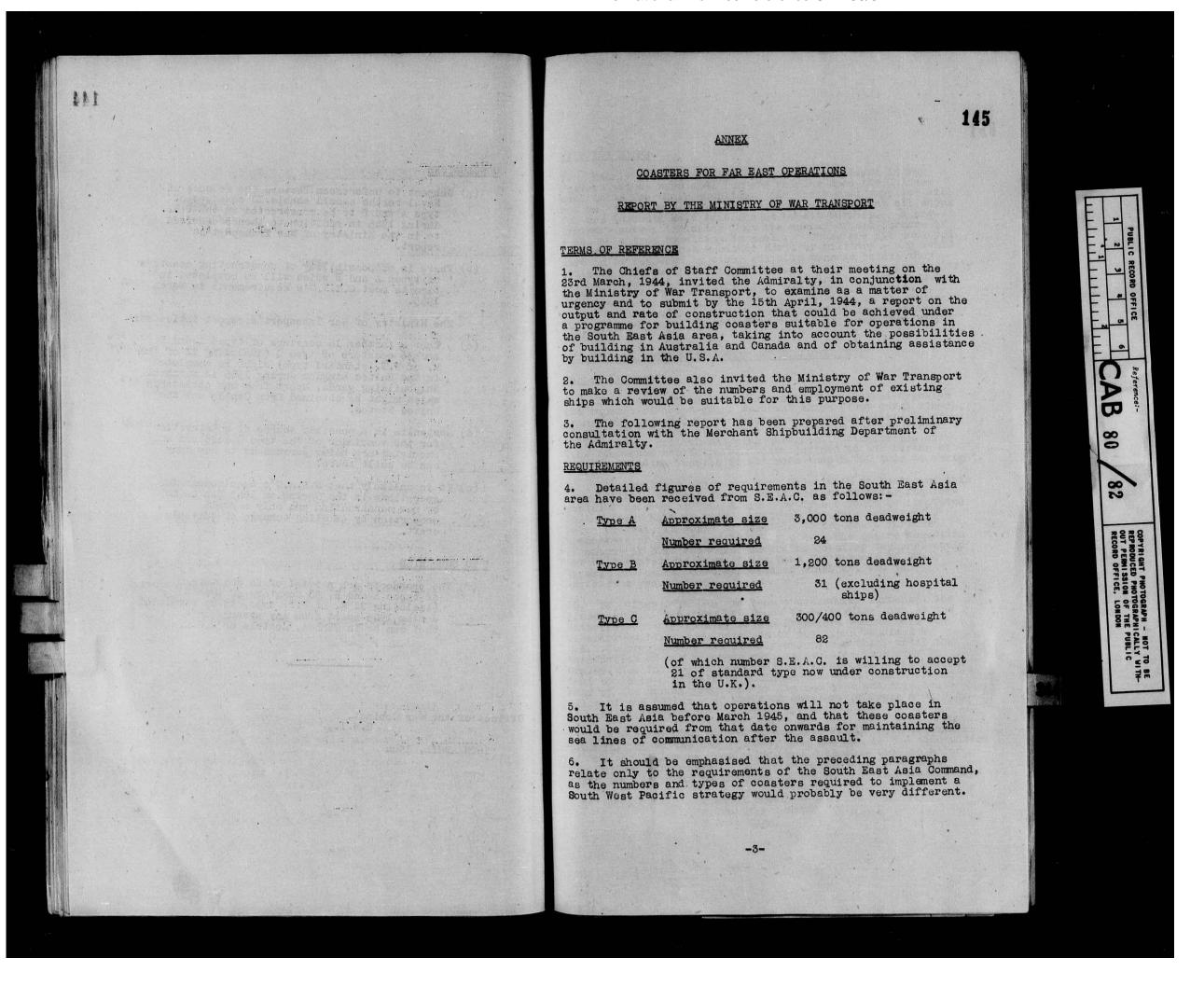
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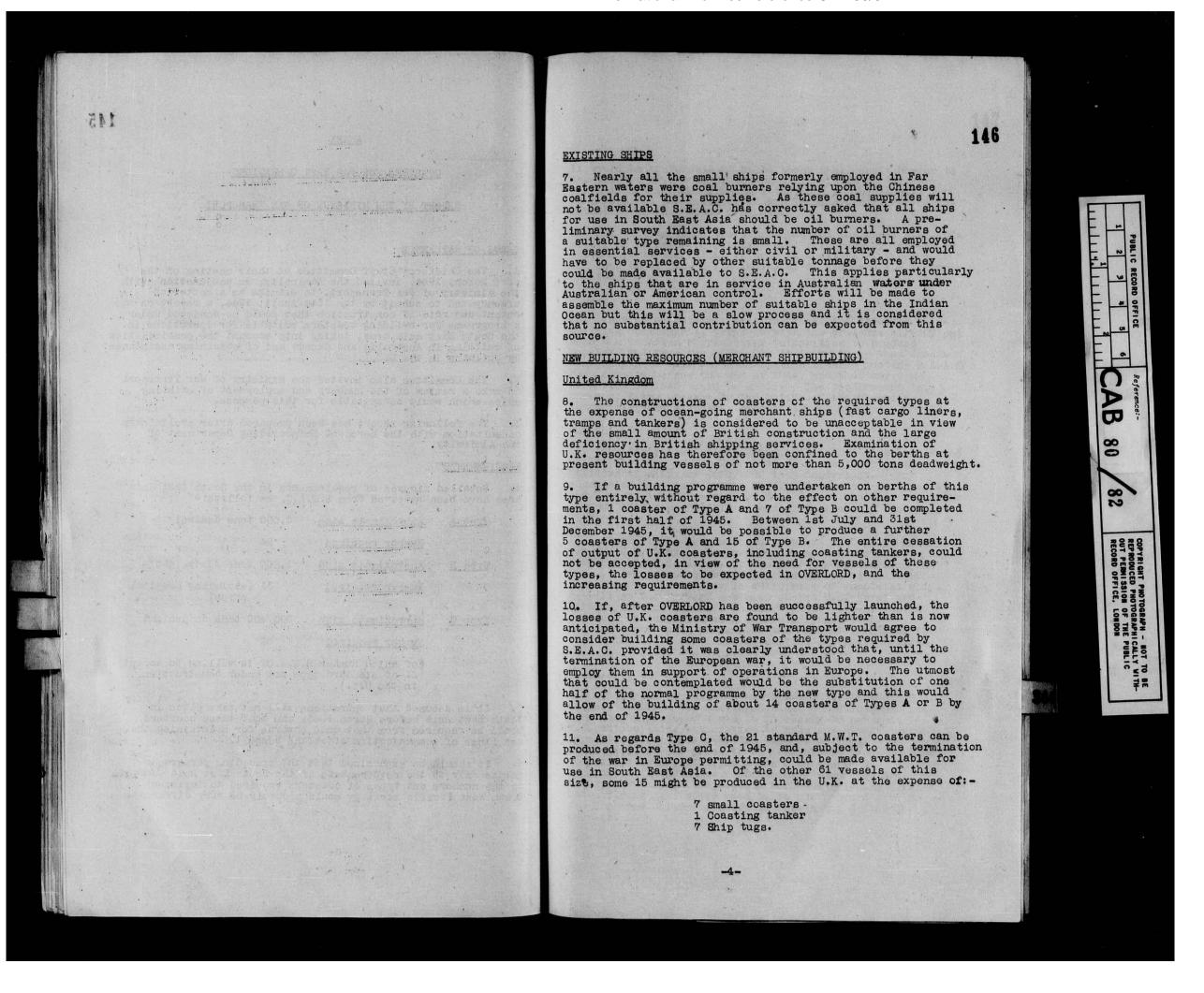
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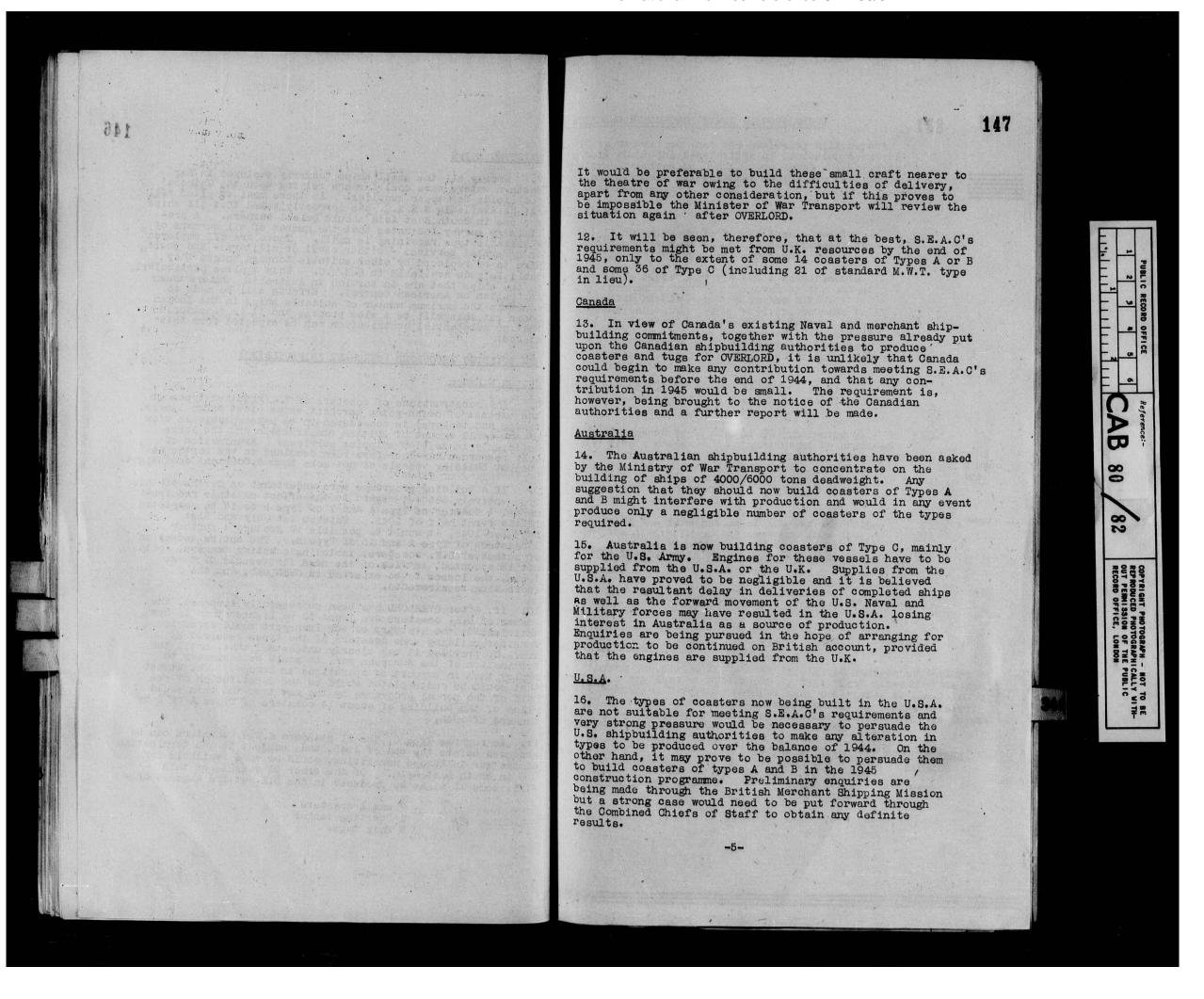


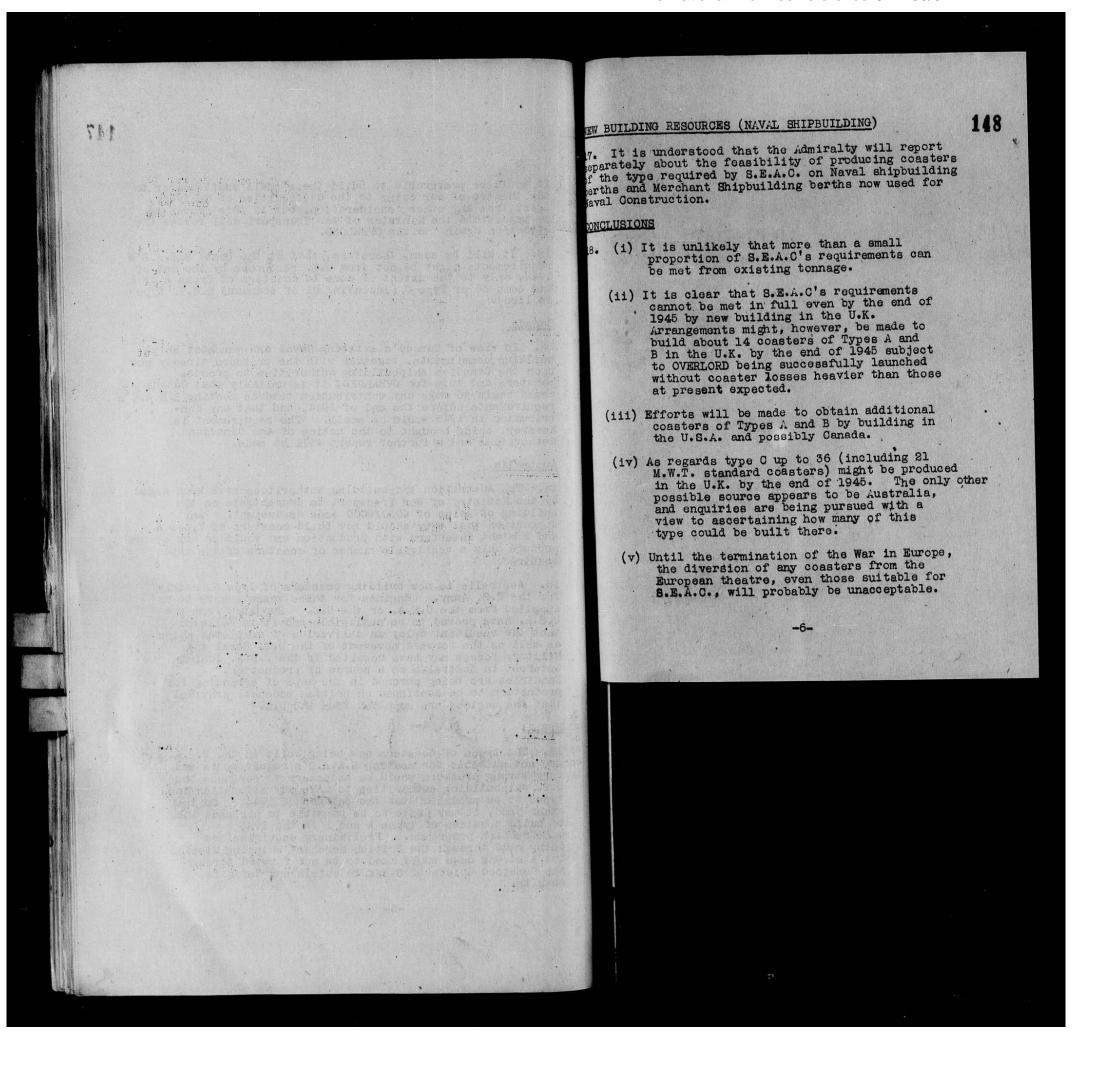


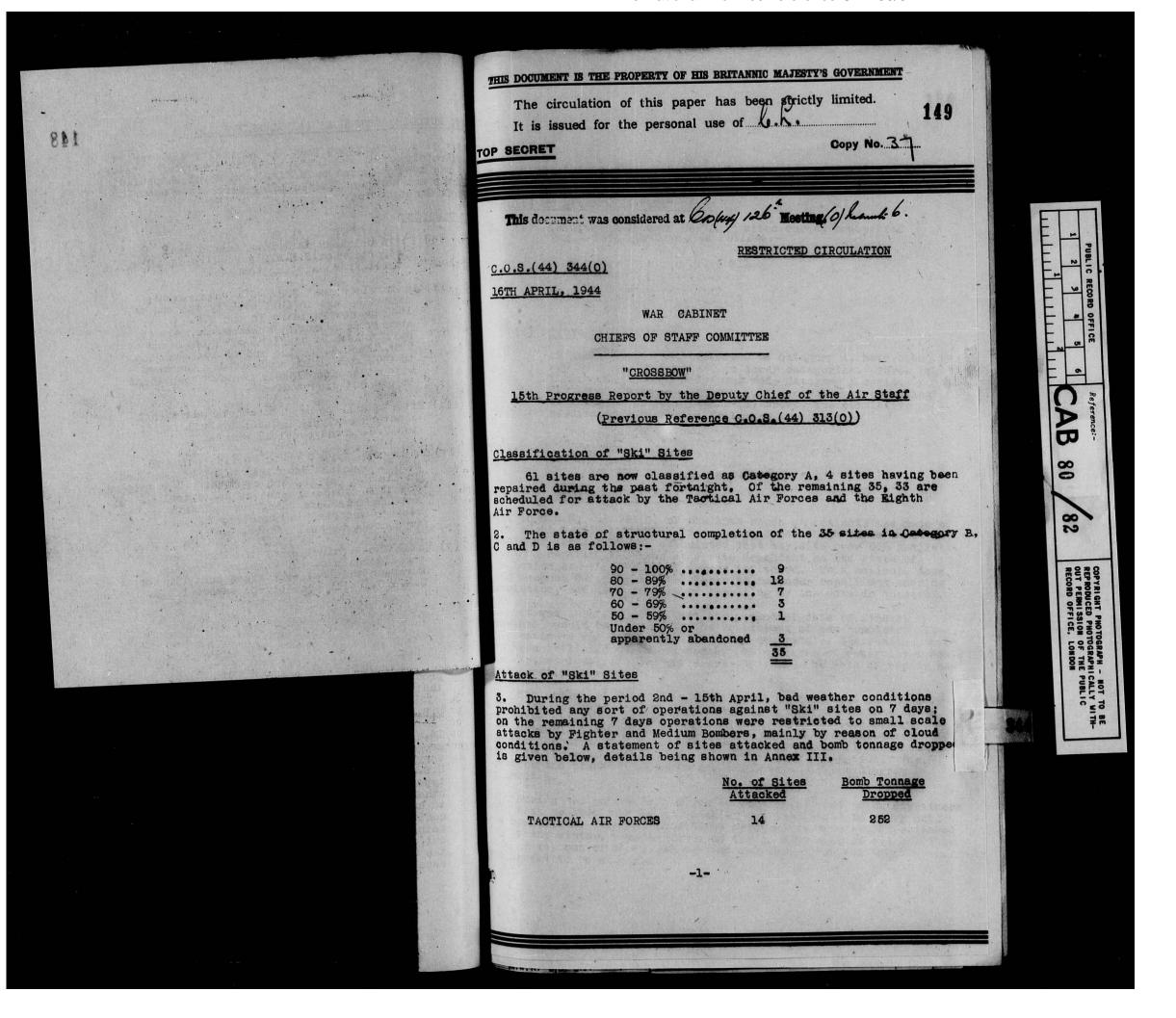












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	of the trans		
7.000		4. Since the commencement of operations against "Ski" sites 96 sites have been attacked and 16,188 tons of bombs dropped.	
		Results of Attacks on "Ski" sites	
	The design of the contract of the second of	5. (1) Results of attacks on "Ski" sites during the period 2nd - 15th April are as follows:-	
,	Transpir in Serge	CATEGORY A Nil CATEGORY B 3 CATEGORY C 2 CATEGORY D 1 NO COVER 8	
		(ii) Cumulative Results	
	Constant the relations and perform and the constant of the con	15 sites, previously assessed as Category A, have been remained and re-assessed in lower categories. Three of these have been attacked and made Category A again. Taking these re-assessments into account, and embodying the results of Paragraph 5 (1) above, the cumulative results to date are as follows:-	
	de forth	CATEGORY A 61 CATEGORY B 24 CATEGORY C 11 CATEGORY D Nil	
	The state of the s	Potential Fire Power of "Ski" Sites	
		6. In C.O.S.(44) 261(0) of the 16th Merch an estimate was made of what might be the potential fire power of the "Ski" sites as at the middle of April. It was calculated that any site over 60% complete might be capable of firing at a rate dependent on its state of completion and the degree of damage inflicted. This estimate took into account Category A sites known to be under repair and nearing completion, and thus capable of operating by the date in question.	
		7. It was then estimated that the potential rate of fire at mid-April would be reduced to the equivalent of ten completed sites. This estimate was based on maintaining the rate of destruction which had been inflicted up to mid-March. This degree of destruction has, however, seriously fallen off since then, and the rate of repair has consequently improved. 3. The estimated fire power which might be developed in the near uture is now estimated as approximately equivalent to that of 25 completed sites. This assumes, however, that pilotless aircraft	
		The estimated fire power which might be developed in the near uture is now estimated as approximately equivalent to that of 25 completed sites. This assumes, however, that pilotless aircraft re available in sufficient numbers and that all the necessary echnical equipment and supplies have been provided at the sites. here is, however, no evidence to confirm this assumption. The revious and present estimates are illustrated in the diagram	
		During the period 14th March to 14th April, out of 32 days there ever been no less than 13 on which it was impossible to carry out by operations; weather conditions being worse than any experienced ring the winter. Furthermore, on the 19 days when it was possible operate, out of the 1,983 sorties despatched against "Ski" sites, a proved to be abortive.	
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