

SECRET.

FROM:- Headquarters. A.A.S.F.
 TO:- Headquarters. B.A.P.P.
 DATE:- 7th May 1940.
 REF:- AASF/S.3586/Org.

To: 100/10
 Copy forwarded by org.t.
 Please take the necessary steps
 to provision in accordance with the
 attached documents.

11-5-40

b/c
by

Reserve Stocks of Aviation Fuel, Bombs and
 S.A.A. - Policy.

With reference to your letter 4864/Org 3. dated
 17th April 1940, herewith the following pro-formae:-

- (i) Memorandum on Scale of Reserve Stocks of Aviation Fuels to be held in France for the A.A.S.F. (3 Copies).
- (ii) Establishment of Bombs, Ammunition and Pyrotechnics. (3 Copies).
- (iii) Bombs and S.A.A. requirements of A.A.S.F. (3 Copies).

Aviation Fuel Requirements.

2. It will be seen from the attached pro-forma (i), that large quantities of additional petrol will have to be held ahead of Railhead i.e. ahead of Army Dump, TRACONE. Arrangements have been made to carry out a reconnaissance for an extra petrol dump of about 200,000 gallons in the SOUTH CHAMPAGNE area, where it will be ready to serve the new aerodromes in that area. This will involve an extra establishment of guards and labour.

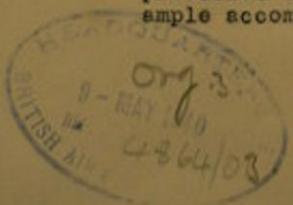
3. For information the present establishments of Aviation Fuels are as follows:-

Type of Fuel.	Aero-dromes.	4.ASP.	5.ASP.	6.ASP.	Advanced Base.
100 Octane.	154000	16000	90000	150000	256056
D.T.D.230.	220000	56000	82000	89000	114076
D.T.D.109.	13800	2800	4100	4450	20955

Ammunition.

4. The new ammunition establishments have been compared with the old and the difference is so small that the provision of a third F.A.A.P. is not necessary. We have ample accommodation in NOGENT and ORMES.

G. M. Gandy
 1/ Air Vice Marshal,
 Air Officer Commanding,
 Advanced Air Striking Force.



~~15B~~
S E C R E T.

1.

INTRODUCTION.

Reserves of aviation fuel for the A.A.S.F., are worked out for the Squadrons shown below, which include both Bomber and Fighter reinforcements.

(i)	BATTLE.	(16 I.E.)	8 Squadrons.
(ii)	BLenheim	(16 I.E.)	8 "
(iii)	HURRICANE	(16 I.E.)	8 4 "

2.

Stocks forward of railhead are based on the following requirements:-

(i) Aerodromes.

36 Sorties per Bomber Squadron.

120 " " Fighter "

(ii) Forward Dumps.

36 Sorties per Bomber Squadron.

240 " " Fighter "

Ammunition requirements have been calculated on the same scale.

3.

CALCULATIONS.(i) BATTLE (8 Squadrons).

	1 week Sustained.	3 weeks Sustained.	Additional Reserve.	On Aerodromes (36 Sorties per Squdn.).	Forward Petrol Dumps.	Total forward of Railhead.
Short Sorties. (3 hrs.)	192	576	576	288	864	1152

Thus converting "Sorties" into "gallons" as per S.D.98, Table 68, Serial 5, requirements are as follows:-

(a) Aerodromes.

$$288 \text{ (Sorties)} \times 212 \text{ (gallons)} = 61056 \text{ gallons of D.T.D. 230.}$$

$$\text{Oil (5% of petrol)} = 3053 \text{ gallons of D.T.D. 109.}$$

(b) Forward Dumps.

864 (Sorties) X 212 (gallons) = 183168 gallons of
D.T.D. 230.

Oil (5% of petrol) = 9159 gallons of
D.T.D. 109.

(c) Advanced Base.

24 (Sorties) X 2 (weeks) X 8 Squadrons = 384 Sorties.

384 (Sorties) X 212 (gallons) = 81408 gallons of
D.T.D. 230.

Oil (5% of petrol) = 4070 gallons of
D.T.D. 109.

(d) Base Area.

24 (Sorties) X 6 (weeks) X 8 (Squadrons) = 1152 Sorties.

1152 (Sorties) X 212 (gallons) = 244224 gallons of
D.T.D. 230.

Oil (5% of petrol) = 12211 gallons of
D.T.D. 109.

(ii) BLenheim (8 Squadrons).

	1 week Sus- tained.	3 weeks Sus- tained.	Additional Reserve.	On Aerodromes (36 Sorties per Squdn.).	Forward Petrol Dumps.	Total forward & Railhead.
Short Sorties (3 hrs.)	192	576	576	288	864	1152

Note.

H.Q., Bomber Command have advised that all reinforcing Blenheim Squadrons will require aviation fuel, per aircraft, as follows:-

(i) 100 Octane. 188 gallons.

(ii) D.T.D. 230. 290 gallons.

A copy of their Cypher message, O.167, dated 14/4/40, is attached at Appendix "A" for information. For ease of calculations, reserves will be worked out as 2/5 of 100 Octane and 3/5 of D.T.D. 230.

Thus converting "Sorties" into "Gallons" as per S.D.98, Table 68, Serial 30, requirements are as follows:-

(a) Aerodromes.

288 (Sorties) X 393 (gallons) = 113184 gallons.
100 Octane Spirit = 45276 gallons.
D.T.D. 230 " = 67914 gallons.
Oil D.T.D. 109
(5% of petrol). = 5659 gallons.

(b) Forward Dumps.

364 (Sorties) X 393 (gallons) = 339552 gallons.
100 Octane Spirit = 135920 gallons.
D.T.D. 230 " = 203730 gallons.
Oil D.T.D. 109
(5% of petrol). = 16978 gallons.

(c) Advanced Base.

24 (Sorties) X 2 (weeks) X 8 (Squadrons) = 384 Sorties.
384 (Sorties) X 393 (gallons) = 296352 gallons.
100 Octane Spirit = 118540 gallons.
D.T.D. 230 " = 177810 gallons.
Oil D.T.D. 109
(5% of petrol). = 14818 gallons.

(d) Base Area.

24 (Sorties) X 6 (weeks) X 8 Squadrons = 1152 Sorties.
1152 (Sorties) X 393 (gallons) = 452736 gallons.
100 Octane Spirit = 181096 gallons.
D.T.D. 230 " = 271844 gallons.
Oil D.T.D. 109
(5% of petrol). = 22637 gallons.

(iii) HURRICANE (4 Squadrons).

1 week Sus- tained.	3 weeks Sus- tained.	Additional Reserve.	On Aerodromes (36 Sorties per Squdn).	Forward Petrol Dumps.	Total Forward of Railhead.
Sorties. 480	1440	400	480	1360	1840

Converting "Sorties" into "gallons" as per S.D. 93;
Table 68, Serials 45 and 46, requirements are as follows:-

(a) Aero-dromes.

400 (Sorties) X 154 (gallons) = 73920 gallons of
100 Octane.

Oil (5% of petrol) = 3696 gallons of
D.T.D. 109.

(b) Forward Bases.

1360 (Sorties) X 154 (gallons) = 209440 gallons of
100 Octane.

Oil (5% of petrol). = 10472 gallons of
D.T.D. 109.

(c) Advanced Base.

130 (Sorties) X 2 (weeks) X 4 (Squadrons) = 960 Sorties.

960 (Sorties) X 154 (Gallons) = 147360 gallons of
100 Octane.

Oil (5% of petrol). = 7392 gallons of
D.T.D. 109.

(d) Base Areas.

130 (Sorties) X 6 (weeks) X 4 (Squadrons) = 2880 sorties.

2880 (Sorties) X 154 (gallons) = 443520 gallons of
100 Octane.

Oil (5% of petrol). = 22176 gallons of
D.T.D. 109.

(iv) Additional reserve for Visiting aircraft, vide H.Q. B.A.F.F.
Circular No. 4884/1943 dated 18th April, 1940, para. 3 (1) (a) (e).

As no definite indication is given as to the intensity of operations of these visiting aircraft, the numbers to be catered for, and the number of "visits" likely to be made each month, the additional 300,000 gallons reserve, will be split up as follows:-

(a) Aero-dromes (one fifth).

40,000 gallons of D.T.D. 220.

2000 gallons of D.T.D. 109 oil (5%).

(b) Forward Bases (two fifths).

80,000 gallons of D.T.D. 220.

4000 gallons of D.T.D. 109 oil (5%).

(c) Advanced Base (two fifths).

80,000 gallons of D.T.D. 220.

4000 gallons of D.T.D. 109 oil (5%).