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C. ALLEN
1942

7-15.C.C. 6th Meeting

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26th August, 1942.

COPY NO. 21

MINUTES OF THE 6th MEETING OF THE
JOINT "CROSSBOW" COMMITTEE

Air Commodore C.B.R. Pelly	D. of Ops. (S.O.) Chairman.
Air Commodore J.A. Easton	D. of I. (R)
Colonel R.D. Hughes	H.Q., U.S. St. A. F. E.
Lieutenant Colonel Stewart McClintic	A.I. 3. (U.S.A.)
Wing Commander W.F. Lamb	A.D. of Ops. (S.O.)

Also Present

Squadron Leader C.T. Winterton	A.I. 3. (c) 1
Captain W.W. Rostow	A.I. 2. (a)

Order of Priority for the Attack of TargetsACTION

Air Commodore Pelly said that in recommending an order of priority for the attack of various types of target associated with rockets, especial consideration should be given to the time factor. In view of the increasing imminence of rocket attacks he felt that it was now time to place "short term" targets on a high order of priority for attack at the expense of the longer term industrial objectives (with the exception of hydrogen peroxide plants). Good progress had already been made in the destruction of the hydrogen peroxide industry, it was most desirable to attack the remaining hydrogen peroxide plants as soon as possible and thus complete this task.

2. Air Commodore Easton said that while it was probable that the enemy had not yet cured all the technical difficulties encountered in the operation of rockets, all the recent evidence tended to indicate that attacks would commence during the first half of September. The attack of strategical industrial targets was not therefore likely to delay the enemy's target date.

3. The COMMITTEE agreed to recommend that "short term" targets should now be placed on a high order of priority for attack at the expense of industrial objectives, and that the remaining hydrogen peroxide plants should remain on a high priority.

PEENEMUNDE

4. Lieutenant Colonel McClintic suggested that in view of the evacuation of BLITZMA an increased number of technical experts might now be accommodated in the living quarters at PEENEMUNDE, and the latter might be worth while targets.

D. of I. (R) 6. The COMMITTEE after discussion, invited D. of I. (R) to investigate the possibility of inflicting casualties amongst technical personnel by attacks on barracks and living quarters at PEENEMUNDE.

Attack of Launching Sites.

7. Air Commodore Pelly said that D.D. Science had analysed the effect of the bombing of launching sites by taking each site that was rendered Category A between 30th June and 8th August and determining the activity of the zone containing the site for four days before and after attacks. Analysis showed that there had been a decrease of about 18% in the average activity after attack. While he did not suggest any

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alteration in the present policy as yet, he suggested that the Committee should bear in mind that at a later date the launching sites might become a bottleneck in the enemy's organisation and provide profitable targets.

8. Air Commodore Pelly also said that D.D.Science had examined the GERMAN organisation of the launchings sites manned by No.2 Abteilung. It was suggested, in order to acquire further information, that launching sites manned by one particular battery should be considered for simultaneous attacks.

9. The COMMITTEE agreed that the existing order of priority of launching sites should, as far as possible, be annotated to show the battery responsible for their operation.

Instructions to the 15th Air Force.

10. The Meeting discussed the channel whereby "CROSSBOW" targets were communicated to the 15th Air Force.

H.Q. U.S.St.A.F.E. 11. THE COMMITTEE invited H.Q. U.S.St.A.F.E. to signal to M.A.A.F. and the 15th Air Force those "CROSSBOW" targets in the Mediterranean sphere of operations, together with a broad review of Intelligence concerning these targets.

Co-ordination of Air Forces Attacking "CROSSBOW" Targets

12. Air Commodore Pelly in referring to the impending re-organisation of S.H.A.B.F. and A.E.A.F., said that this was a matter which vitally affected the procedure of the Committee in recommending targets for attacks, and one to which members should give immediate consideration. In discussion the following points were made : -

- (i) It had been suggested that target schedules should be sent direct to Commands with a proviso that they were subject to the Deputy Supreme Commander's approval.
- (ii) The proposal at (i) above would involve the Air Ministry being responsible for the allocation of particular targets to Commands, and moreover, while this procedure might function satisfactorily at the present time, it certainly would not do so in the event of rocket attacks commencing.
- (iii) The future set-up should be able to exercise operational control over all the Air Forces involved in the attack of "CROSSBOW" targets, e.g., Bomber Command, heavy bombers and fighters of the Eighth Air Force, the Tactical Air Force, and A.D.G.B.
- (iv) The best solution seemed to be the centralisation of operational control as at present in H.Q., A.E.A.F.
- (v) It would not be practicable to handle the "CROSSBOW" problem from Headquarters in FRANCE; logically it was a problem for control from the United Kingdom.
- (vi) When H.Q. A.E.A.F. move, a nucleus of specially selected operational staff officers should remain at STANMORE to handle the problem. This nucleus would, as necessary, be reinforced by suitable and competent officers from the various Air Forces concerned.
- (vii) The D.C.A.S. should be apprised of the impending difficulties.

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D.of Ops.
(S.O.) 13. The COMMITTEE invited D.of Ops.(S.O.) to discuss with higher authority within the Air Ministry the question of the future operational control of Air Forces engaged in "CROSSBOW" operations, in the light of the discussion above.

Memorandum and Target Schedule

14. The COMMITTEE agreed the Memorandum to the Deputy Supreme Commander and recommended order of priority for the attack of targets as shown in Target Schedule No.36 attached to these Minutes.

27th August, 1944.

TOP SECRET

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COPY NO. 80

TO: Deputy Supreme Allied Commander, S.H.A.E.F.,
(For the attention of Air Vice-Marshal Robb - 3 copies)

FROM: Air Ministry (D. of Ops.(S.O.) Whitehall.

DATE: 26th August, 1944.

REF: CMS.307/D. of Ops.(S.O.)

SUBJECT: Attack of "CROSSBOW" Targets. Recommendations of Joint "CROSSBOW" Committee.

With reference to my CMS.307/D. of Ops.(S.O.) dated 20th August, 1944, the Joint "CROSSBOW" Committee have again reviewed the intelligence available and wish to submit for your consideration the attached Schedule No. 36, of targets recommended for attack.

2. So far as they are able to judge the land situation in France, the Committee feel that the enemy may now have about one month or less left to him to develop rocket attacks against England, and that he is probably making every effort to start the operation. In these circumstances, targets likely to have a comparatively short term delaying effect should have first priority within the "CROSSBOW" plan. The priorities in the new schedule have been adjusted accordingly.

3. Some remarks on the new target schedule are given below: -

(i) Rocket Production

- (a) The rocket production and assembly factory at WEIMAR/BUCH WÄLD was severely damaged by the 8th U.S. Air Force on 24th August, and has therefore been temporarily suspended from attack.
- (b) Three agents' reports, dated July 1944, point to rocket production at ZIPP (near SALZBURG). Photography shows an active constellation of buildings, an underground factory or storage point, special tank cars, and a labour camp. ZIPP has therefore been added to the list of industrial targets.

(ii) Hydrogen Peroxide Plants

As a result of attacks by 15th U.S. Air Force, OBER RADEBACH has been suspended. Good progress has now been made with attacks on hydrogen peroxide plants. It is therefore important to bomb the remaining two on the list as soon as possible. (This assumes that the attacks on PEENEMÜNDE on 25th August were successful).

(iii) Rearward Rocket Storage Depots

The two depots in the VERDUN-BAR LE DUC area (SAVONNIERES and TAVANNES) recommended in the last schedule have been left on the list. You may, however, decide that the land situation would render attacks against these targets unprofitable.

(iv) Forward Rocket Storage Depots.

Evidence that the forward depots are in fact intended for rocket storage has come in, and the Committee feel that the

/moment ...

- 2 -

moment has come to attack them. Those North of the River SEINE have therefore been included in the Schedule in an order of priority running from North to South, on the grounds that the northerly depots are likely to be the last affected by land operations.

(v) Flying Bomb Storage Depots

Subject to the progress of land operations, the Committee have included KILBY LA. MONNAGNE (known to have been active on 17th August) and VAUXAILLON (a new depot of which there is evidence of activity) in the target schedule. These are fleeting opportunity targets.

(vi) "Benito" Stations

Three of the "Benito" Stations situated in the SOMME/SEINE area have been removed from the target schedule. The Committee would like to draw attention to the importance of destroying the two that remain on the list at the earliest opportunity.

(vii) Flying Bomb Launching Sites

Those North of the SEINE have been listed in order of priority in accordance with their degree of activity. In addition, it has been possible to identify some sites as being operated by particular German batteries. There would be advantages from the Intelligence point of view in attacking all the active sites in one battery on one day. The target list has been annotated to show sites which are known to belong to one particular battery.

L. B. R. Pelly.

Air Commodore,
Director of Operations (Special Operations).

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American Embassy, Office of the Air Attache
(For the attention of Major Bartlett)

S.O.E. (Major General Gubbins)
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~~SECRET~~ SECRET"CROSSBOW" TARGETS RECOMMENDED FOR ATTACKSCHEDULE NO. 36FIRST PRIORITY - Rocket FuelsLiquid Oxygen

		<u>Target No.</u>
1. TILLEUR	} Subject to results of recent attacks.	ZB.873C
2. TERTRE-LEZ-BAUDOUR		ZB.878B
3. HOUDENG		ZB.916E
4. WILLEBROECK		ZB.112B
5. HENIN-LIETARD		Z.839A
6. LA MADELEINE-LES-LILLE		Z.838A

Hydrogen Peroxide

1. RHEINFELDEN	GF.2358E
2. DUSSELDORF (HENKEL)	GK.4452

SECOND PRIORITYForward Rocket Storage Depots

	<u>Target No.</u>	<u>Illustration No.</u>	<u>Aiming Points</u>
1. LUMBRES	Z.3342	XI/D/40/1	(046H 035V 042H 062V)
2. LA POURCHINTE	Z.3320	XI/D/22/ Contact print Neg.No.41091	033H 040V
3. RAIMBERT	Z.3329	XI/D/28/1	043H 058V
4. BERGUENEUSE	Z.331	XI/D/19/1	046H 053V
5. ROLLENCOURT	Z.3330	XI/D/29/1	037H 073V
6. AUCHY-LES-HESDIN	Z.3314	XI/D/20/1	070H 058V
7. AGENVILLE	Z.3315	XI/D/18/1	015H 035V
8. ST. RICQUIER	Z.3323	XI/D/25/1	058H 020V
9. PONT REMY	Z.3316	XI/D/21/1	(064H 062V 091H 045V)

THIRD PRIORITYLarge Sites

	<u>Target No.</u>
1. MIMOYECQUES	Z.3047
2. WATTEN - Subject to results of recent attacks.	Z.3001

Rear Rocket Storage Depots
(See para. 3(iii) of Memorandum)

1. SAVONNIERES	Z.3338
2. TAVANNES	Z.3345(a) Z.3345(b)

FOURTH PRIORITY"Benitc" Stations
(See para. 3(vi) of Memorandum)

1. BOULOGNE/BOURSIN	5001E/K/12
2. CASSEL/LA CROIX ROUGE	5002E/K/10

FIFTH PRIORITYTarget No.Industrial Production

- | | | |
|----|--|---|
| 1. | ZIPP | GN.5061 |
| 2. | GUSTAVSBURG/MAINZ | GR.3663 |
| 3. | PRENEMUNDE - Subject to results of recent attacks. | GU.4387.A1
GU.4387.B1
GU.4387.B2
GU.4387.D |
| 4. | KLAUSTHAL | GS.129 |

SIXTH PRIORITYFlying Bomb Storage Depots
(See para.3(v) of Memorandum)

- | | | |
|----|-----------------------|-------------------------|
| 1. | RILLY LA MONTAGNE (a) | Z.3268 |
| 2. | VAUXAILLON | Tac. Target No.493E/E/9 |

SEVENTH PRIORITYFlying Bomb Unloading Stations

	<u>HAZEBROUCK AREA</u>	<u>GSCS Sheet No.</u>	<u>Grid Ref.</u>
1.	RENABOUE	4040/F1	217505
2.	BLENNERQUES	4040/50	169504
3.	BERCLETTE	4040/2	273371
4.	ST.AIRE SUR LYS	4040/51	237402
	<u>ABBEVILLE/AMIENS AREA</u>		
5.	LIERCOURT	4250/10D/5	826773
6.	LONGPRE LES CORPS SAINTS	4250/10D/5	897726
7.	AIRAINES	4250/10D/5	851681
8.	FLIXECOURT	4250/10D/5	954728
9.	CANAPLES	4250/10D/3	054768
10.	DOULLENS	4040/84	151873
11.	BOUGUE MAISON	4040/84	159933

EIGHTH PRIORITYLaunching SitesTarget No.

- | | | | |
|---|-----|--------------------------------|--------|
| Ø | 1. | CREPIEUL | Z.3197 |
| Ø | 2. | FLEFS | Z.3166 |
| Ø | 3. | FLEURY | Z.3167 |
| Ø | 4. | VINCLY | Z.3292 |
| Ø | 5. | BELLOY SUR SOMME | Z.3227 |
| Ø | 6. | COULONVILLERS | Z.3223 |
| Ø | 7. | MONT LOUIS FERME (6th Battery) | Z.3213 |
| Ø | 8. | WADICOURT | Z.3209 |
| Ø | 9. | BOIS ST. REMY | Z.3271 |
| Ø | 10. | FROMENTAL | Z.3319 |
| Ø | 11. | CHAPELLE NOTRE DAME | Z.3299 |
| Ø | 12. | PERFAY | Z.3317 |
| Ø | 13. | FRESSIN | Z.3189 |
| Ø | 14. | FRESNOY (6th Battery) | Z.3219 |
| Ø | 15. | OEUF EN TERNOIS | Z.3325 |
| Ø | 16. | HAUT MAISNIL (6th Battery) | Z.3252 |
| Ø | 17. | VILLERS L'HOPITAL | Z.3254 |
| | 18. | FERME DU GRAND BOIS | Z.3300 |
| | 19. | ACQUET (th Battery) | Z.3289 |
| | 20. | PROUVILLE | Z.3212 |
| | 21. | NOYELLE EN CHAUSSEE II | Z.3235 |

EIGHTH PRIORITYLaunching Sites (Contd.)

		<u>Target No.</u>
22.	CAUCHIE D'ECQUES	Z. 3217
23.	COUBRONNE	Z. 3206
24.	WESTROVE	Z. 3331
25.	FLERS	Z. 3188
26.	FERME DU FORESTEL (6th Battery)	Z. 3228
27.	BOIS DE DOMPIERRE	Z. 3347
28.	ANDERBLECK	Z. 3214
29.	L'HEY	Z. 3216
30.	WEMAERS CAPPELL	Z. 3318

∅ Nos. 1 - 17 believed to be firing.

NINTH PRIORITYSecondary Industrial Targets

1.	SIEMENS ARNSTADT	-GZ. 2681
2.	DEUTSCHE INDUSTRIEWERKE BERLIN/SPANDAU	GY. 4682B
3.	FIESLER, KASSEL	(GY. 4766(a))
		(GY. 4809(a) (b))
4.	OPEL RUSSELHEIM	GN. 3786
5.	DAIMLER-BENZ, SINDELFINGEN	GN. 3802(a)
6.	VUMAG, COERLITZ	GR. 3719
7.	SIEMENS BERLIN/SIEMENSSTADT	GB. 3276(a)(b)
8.	SIEMENS, VIENNA	GH. 647B
9.	ARGUS, BERLIN/RELNICKENDORF	GY. 4684(a)
10.	WALTER, PRAGUE	GY. 4666
11.	ALUMINIUM WERKE, SINGEN	GZ. 2789(a)
12.	GEORGE FISCHER, SINGEN	GZ. 2789(b)
13.	LINKE-HOFFMAN, BRÉS LAU	GN. 3824(a)
14.	WALTHER, KIEL	(5410.E/P/8)
		(5410.E/P/9)
15.	K.S. & B. FRANKENTHAL	GR. 3716 (a)
16.	DAIMLER-BENZ, GAGGENAU	GR. 3662
17.	ASKANIA, BERLIN/FREIDENAU	GL. 2613
18.	JUNGHANS, SCHRAMBERG	GL. 2601

TENTH PRIORITY

Airfields - For attack in the event of air-launching of Flying Bombs being resumed.

1.	VENLO	ZH. 71
2.	ROYE/AMY	Z. 481
3.	EINDHOVEN	ZH. 61
4.	LE CULOT	ZB. 48
5.	CHIEVRES	ZB. 50
6.	SOESTERBERG	ZH. 53
7.	GILZE-RIJEN	ZH. 54
8.	BRUSSELS/MILSBROCK	ZB. 102
9.	DEELEN	ZH. 983

Temporarily Suspended from AttackLarge Sites

SIRACOURT	Z. 3069
WIZERNES	Z. 3090

Rocket Storage Depot.

FORET DE NIEPPE

Target No.

Z.3145 G, H & B

Flying Bomb Storage Depot.

RILLY LA MONTAGNE (b)

Z.3255

Industrial and Production Centres

PREMEMUNDE

GU.4387 C1, C2.

ZIMROWITZ

GU.4387 C2.

HOLLRIEGELSKREUTH

GN.3768

FALLERSLEBEN

GS. 1

WEIMAR/BUCHENWALD

CZ.2822

OBER RADEBACH

GN.5060

GN.3764C

D. of Ops.(S.O.)
26th August, 1944.