

~~SECRET~~J.C.C. 5TH MEETING19TH AUGUST, 1944~~SECRET~~

COPY No. 2.3.

MINUTES OF THE 5TH MEETING OF THE
JOINT "CROSSBOW" COMMITTEEPresent

| | |
|----------------------------|-------------------------------|
| 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. |
| Colonel A.R. Maxwell | H.Q.U.S.St.A.F.E. |
| Lt. Col. Stewart McGlentic | A.I.3. (U.S.A.) |
| Wing Cdr. W.F. Lamb | A.D. of Ops. (S.O.) |

Also present

| | |
|--------------------------|----------------|
| Wing Cdr. D.H. Scott | D.D.I. (3) |
| Sqn. Ldr. C.T. Winterton | A.I.3. (c), 1. |
| Capt. W.W. Rostow | A.I.2. (a) |

ACTIONSUSPENSION OF TARGETS

(Previous reference J.C.C. 4th Meeting M.T.G. - Paragraph 6)

Air Commodore Easton informed the Committee that Group Captain Plant had been appointed the co-ordinating authority for the assessment of damage caused to "CROSSBOW" targets. Group Captain Plant would be responsible for ensuring that recommendations for the suspension of targets were forwarded to D. of Ops. (S.O.) as soon as possible.

2. THE COMMITTEE took note of the above statement.

ELECTRIC POWER SUPPLIES

(Previous reference J.C.C. 4th Meeting - Paragraphs 9 and 10)

3. Air Commodore Easton stated that there was some evidence to show that modified launching sites were dependent upon external sources for electric power supply. In the event of the supply being cut off there would, however, be no great difficulty in meeting the requirements of each site by the provision of diesel generators.

4. Air Commodore Pelly said that he did not feel satisfied that this was the case. Ground reports indicated that modified sites were inactive when their power supply had been cut off and that the repair of power lines was one of the first tasks undertaken in the repair of damaged sites. It was noticeable that when Halque transformer station had been damaged the enemy had shown great energy in its repair.

5. THE COMMITTEE invited D. of I. (R) to re-examine the extent to which the operation of modified launching sites would be affected by the destruction of external electric power supplies.

TARGET MATERIAL

6. Colonel Maxwell informed the Meeting that opportunities to attack liquid oxygen plants in Northern France and Belgium had been missed because sufficient target material had not been available. Squadron Leader Winterton said that the target material for these plants had been issued on a tactical basis and that full strategical material would be distributed to Commands that day.

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- 2 -

ACTION

H. Q. 7. THE COMMITTEE invited H. Q. U.S. St. A. F. E. to inform A. I. 3. (c) 1. U.S. St. A. F. E. whenever they felt that the target material issued was insufficient to enable effective attacks to be carried out against objectives.

WIEMAR/BUCHENWALD

8. Air Commodore Easton said that photographic cover of the area round Wiemar/Buchenwald had now been examined. Two special railway "flats" similar to those at Peenemunde and also three possible hydrogen-peroxide waggons had been observed. Though these could not be definitely associated with the factory, the presence of these waggons was significant.

9. THE COMMITTEE took note of the above statement.

BOMBING PLAN IN THE EVENT OF ROCKET ATTACK

10. The Meeting had before them a draft plan for the attack of the rocket organisation when rocket attacks commence.

In discussion THE COMMITTEE agreed the following points:-

- (i) It would be impossible by air attack to stop entirely rocket firings, and therefore the aim of the plan should be to reduce the scale of attack.
- (ii) Industrial production centres in Germany should be included in the plan for attack on a relatively low priority.
- (iii) Production targets included in the current weekly schedules as secondary targets should be carefully examined with a view to their inclusion in the plan.
- (iv) A copy of the plan, when approved, should be sent as soon as possible to the C. O. P. C. in order that the latter could prepare a tactical plan.

D. of Ops. 11. THE COMMITTEE invited D. of Ops. (S.O.) to redraft the plan in (S.O.) the light of the above points.

MEMORANDUM AND TARGET SCHEDULE

12. THE COMMITTEE, after a full discussion, agreed the Memorandum to the Deputy Supreme Commander and recommended the order of priority for the attack of targets as shown in Target Schedule No. 35.

AIR MINISTRY
20th August, 1944.

3,

(ix) Flying Bomb Unloading Stations

These have been included in the Schedule as before. Intelligence, however, now indicates that flying bombs are not all arriving in specially made up trains, but that the trucks conveying them are spread amongst ordinary supply trains. Although the routes and unloading stations probably remain the same as before, the times of arrival suggested in Para. 2 (xii) of QMS, 307/ D. of Ops. (S.O), dated 13th August, 1944, are no longer applicable.

(x) Launching Sites

The schedule contains a list of modified sites, those situated South of the SOIIE in a lower sub-category than the others. If, as seems likely, the enemy is unable to operate flying bombs from south of the SOIIE, either because we occupy the area or because intense air attacks from short range succeed in paralysing movement and stopping supplies, the number of sites in operation would be materially reduced. A stage may therefore be reached when it may be worth while to concentrate our air effort against a relatively small number of launching points. The Committee will keep this matter under review and will make recommendations when appropriate.

L.P.R. Pelly. A/Cdre

Director of Operations (Special Operations)

/Distribution:.....

~~TOP SECRET~~

TO: Deputy Supreme 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: 30th August, 1944.

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

Subject: Attack of "CROSSBOW" Targets, Recommendations
of Joint "CROSSBOW" Committee.

With reference to my OIS.307/D. of Ops. (S.O), dated 15th August, 1944, the Joint "CROSSBOW" Committee have had a further review of the relevant intelligence and wish to submit for your consideration the attached Schedule No. 35 of targets recommended for attack.

2. It is now obvious that the trend of land operations in France will have an increasingly direct influence on the whole of the "CROSSBOW" problem. Since the Supreme Allied Headquarters will always have the best and most up to date picture of the progress on land and of future plans, the Committee feel that it would be unwise for them to make precise recommendations as to when attacks on particular targets or target systems should cease; they feel that such decisions must be left to you. They would like, however, to draw attention to the following points:-

- (i) The firings from flying bomb launching sites South of the SOMME have since the 14th August decreased to a marked extent. These sites have been put on the lowest priority of launching sites open to attack; and the Committee feel that the moment may already have come when further attacks should be suspended.
- (ii) The enemy may soon have difficulty in working the flying bomb depots in the OISE VALLEY, North-East of PARIS. The Committee think that the enemy will cease to replenish these Depots and will try to use up stocks on current operations or to transfer stocks to safer areas. The target schedule has been adjusted with the object of disorganising such depots before they can get rid of their stocks.

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

(i) Rocket Production

Reliable evidence has associated an underground factory of Siemens at ARNSHEIM with the production of specialised radio equipment. It is reported to be engaged in the manufacture of radio equipment for secret weapons. In view of the damage already caused to the remainder of the Siemens complex, this is likely. Photographs now confirm the existence of an underground construction at ARNSHEIM and this target has therefore been placed on the list of "Secondary Industrial Targets" (Eighth Priority).

/(ii).....

(ii) Flying Bomb Production

(a) A reliable report states that flying bombs are being assembled at the H.A.N. Gustavsborg/Wahing factory. This target has therefore been added to the "Industrial Production" list.

(b) Examination of flying bomb parts has revealed that all fuel controls so far recovered bear a marking connecting them with the Deutsche Industriewerke at BERLIN/SPANDAU. Although the manufacture of the part concerned could be organized at other works, the Committee feel that this factory is of sufficient importance to warrant inclusion in the list of "Secondary Industrial Targets" (Eighth Priority).

(iii) Liquid Oxygen Plants

No additions have been made to the targets listed in Schedule No.34, but they have been arranged in a different order of priority, based on a revised estimate of their individual capacities.

(iv) Large Sites

Very reliable intelligence has been received that the enemy has been forced to abandon further work at WIZERIES and SIRACOURT, but has decided to continue construction at WATTEN and MIMOYECQUES. Photographic reconnaissances over the past fortnight confirm that there is considerable repair activity at the latter two sites, which are therefore reinstated on the target schedule. Intelligence also indicates that they are intended for storing the rocket.

(v) Flying Bomb Supply Depots (See Para.2 (ii) above).

The Committee recommend prompt attack on five depots in the OISE VALLEY area, as listed in the Schedule. Intelligence and photographic reconnaissance indicate that they are active.

(vi) "Denite" Stations

No alterations have been made to the targets or the priority suggested in the previous memorandum and target list. The importance of eliminating these stations as soon as possible is stressed.

(vii) Forward Rocket Storage Depots

Some good target material has been prepared and issued. The Committee feel that Commands should be prepared, so far as the study of target material is concerned, to lay on attacks at short notice, but do not favour attacks at present. Depots lying South of the SOMME are distinguished in the Schedule.

(viii) Rearward Rocket Storage Depots

Very reliable intelligence indicates that the enemy is preparing two storage depots for rockets in the VERDAN-BAR LE DUC area. These are recommended for attack.

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War Department, Washington.

SECRET"CROSSBOW" TARGETS RECOMMENDED FOR ATTACK
SCHEDULE NO. 35FIRST PRIORITYIndustrial Production

| | | <u>Target No.</u> |
|---|--|-------------------|
| 1 | WIEMAR/BUCHENWALD | GN.5060 |
| 2 | GUSTAVSBURG/MAINZ (Target material to be issued) | GR.3663 |
| 3 | OBER RADERACH (Subject to results of attacks by 15th Air Force) | GN.3764C |
| 4 | RHEINFELDEN | GF.2358E |
| 5 | DUSSELDORF | OK.4452 |
| 6 | PEENEMUNDE | GU.4387A.1 |
| | | GU.4387B.1 |
| | | GU.4387B.2 |
| | | GU.4387D. |
| 7 | KLAUSTHAL | GS.129 |

SECOND PRIORITYLiquid Oxygen Plants

| | | |
|---|---------------------|---------|
| 1 | TILLEUR | ZB.873C |
| 2 | TETRE | ZB.878B |
| 3 | HOUDENG | ZB.916E |
| 4 | WILLEBROECK | ZB.112B |
| 5 | HENIN-LIETARD | Z.839A |
| 6 | MADELEINE-LEZ-LILLE | Z.838A |

THIRD PRIORITYRear Rocket Storage Depots

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

Large Sites

| | | |
|---|-------------|--------|
| 3 | MIMOYECQUES | Z.3047 |
| 4 | WATTEN | Z.3001 |

FOURTH PRIORITYFlying Bomb Storage Depots

| | | |
|---|----------------------|-----------|
| 1 | FARMAIN | Z.3343(a) |
| | | Z.3343(b) |
| 2 | ST.LEU D'ESSERENT I | Z.3248 |
| 3 | ST.LEU D'ESSERENT II | Z.3249 |
| 4 | THIVERNY | Z.3250 |
| 5 | NUCOURT | Z.3135 |

FIFTH PRIORITY"Benito" Stations (Suitable for attack by Fighter Bombers)

| | | |
|---|---|------------|
| 1 | BOULOGNE/BOURSIN | 5001E/K/12 |
| 2 | CASSEL/LA CROIX ROUGE | 5002E/K/10 |
| 3 | ST.VALERY EN CAUX/CONTEVILLE EN PALLEUL | 4900/K/6 |
| 4 | ST.VALERY EN CAUX/ST.MARTIN AUX BUNAUX | 4900/K/22 |
| 5 | AUMALE/NEUVILLE GOUVION | 4901E/K/12 |

SIXTH PRIORITYFlying Bomb Unloading Stations

| | <u>HAZEBROUCK AREA</u> | <u>GSGS Sheet No.</u> | <u>Grid Ref.</u> |
|------|------------------------------|-----------------------|------------------|
| 1 | RENECOURT | 4040/51 | 217505 |
| 2 | BLENDÉCQUES | 4040/51 | 169504 |
| 3 | BERGUETTE | 4040/62 | 273371 |
| 4 | ST. AIRE SUR LYS | 4040/51 | 237402 |
| | | | |
| | <u>ABBEVILLE/AMIENS AREA</u> | | |
| 5 | LEUCOURT | 4250/10D/5 | 826773 |
| 6 | LOMBRE LES CORPS SAINTS | 4250/10D/5 | 897726 |
| 7 | ALBAIENS | 4250/10D/5 | 854681 |
| 8 | FLIXCOURT | 4250/10D/5 | 954728 |
| 9 | COMPIES | 4250/10D/3 | 054700 |
| 10 | DOULINS | 4040/84 | 151873 |
| 11 | BOUVE MAISON | 4040/84 | 159933 |

SEVENTH PRIORITYLaunching Sites - North of the Somme

| | | | |
|---|---------------|------------------------|--------------------|
| Ø | 1 | CREPIEUL | Z. 3197 |
| Ø | 2 | FIEFS | Z. 3166 |
| Ø | 3 | FLEURY | Z. 3167 |
| Ø | 4 | VINCLY | Z. 3292 |
| Ø | 5 | CHAPELLE NOTRE DAME | Z. 3299 |
| Ø | 6 | FERFAY | Z. 3317 |
| Ø | 7 | WADECOURT | Z. 3209 |
| Ø | 8 | BELLOU SUR SOMME | Z. 3227 |
| Ø | 9 | WEMAERS CAPPELL | Z. 3318 |
| Ø | 10 | LEUCOURT | Z. 3103 |
| Ø | 11 | FRESSIN | Z. 3189 |
| Ø | 12 | FRESNOY | Z. 3219 |
| Ø | 13 | OEUF EN TERNOIS | Z. 3325 |
| Ø | 14 | VILLERS L'HOPITAL | Z. 3254 |
| Ø | 15 | HAUT MAISNIL | Z. 3252 |
| Ø | 16 | FROMENTAL | Z. 3319 |
| Ø | 17 | BOLS ST. REMY | Z. 3271 |
| | 18 | FERME DU GRAND BOIS | Z. 3300 |
| | 19 | COUBRONNE | Z. 3206 |
| | 20 | ACQUET | Z. 3289 |
| | 21 | MONT LOUIS FERME | Z. 3213 |
| | 22 | PROUVILLE | Z. 3212 |
| | 23 | L'HEY | Z. 3216 |
| | 24 | FERME DU FORESTEL | Z. 3228 |
| | 25 | BOIS DU DOMPIERRE | |
| | 26 | CAUCHIE D'ECQUES | Z. 3217 |
| | 27 | WESTROVE | Z. 3331 |
| | 28 | NOYELLE-EN CHAUSSEE II | Z. 3235 |
| | 29 | COULONVILLERS | Z. 3223 |
| | 30 | ANDERBLECK | Z. 3214 |
| | 31 | FLERS | Z. 3188 |

Map Ref. 71/878067

Nos. 1-17 believed to be firing.

SEVENTH PRIORITY (Contd.)SOUTH OF LA SOMME

| | | |
|----|------------------------------|--------|
| 32 | BOIS DE QUEUE COMTESSE | Z.3266 |
| 33 | BOIS ST. PIERRE | Z.3290 |
| 34 | LES CATELLIERS | Z.3283 |
| 35 | LES LANDES VIELLES ET NEUVES | Z.3285 |
| 36 | ST. SYLVESTRE | Z.3275 |
| 37 | MONT GOURNOY | Z.3288 |
| 38 | LE HOQUET | Z.3332 |
| 39 | LA RUE GIFFARDE | Z.3336 |
| 40 | MONT CAUVAIRE | Z.3298 |
| 41 | QUINCAMPOIX | Z.3272 |
| 42 | ST. GEORGES SUR FONTAINE | Z.3274 |
| 43 | ST. JEAN DU CARDONNAY | Z.3284 |
| 44 | BOIS DU GRAND MARCHÉ I | Z.3270 |
| 45 | COQUERAUX | Z.3273 |
| 46 | LA GRANDE VALLEE | Z.3269 |
| 47 | LA HOUSOYE | Z.3279 |
| 48 | FORET DU CROC | Z.3278 |
| 49 | FORET DES NAPPES | Z.3260 |
| 50 | FORET DE ST. SAENS | Z.3281 |
| 51 | VAL DES JONCS | Z.3277 |
| 52 | BERTREVILLE ST. OUVEN | Z.3262 |

EIGHTH PRIORITYSecondary Industrial TargetsTarget No.

| | | |
|----|---|--|
| 1 | SIEMENS, AUSTLIT | GZ.2618 |
| 2 | DEUTSCHE INDUSTRIEMERKE BERLIN/SPANDAU | CY.4682B |
| 3 | WESLER, KASSEL | CY.4766(a) CY.4809(a) CY.4809(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/REINICKENDORF | CY.4684(a) |
| 10 | WALTER, PRAGUE | CY.4666 |
| 11 | ALUMINIUMWERKE, SINGEN | GE.2789A |
| 12 | GEORGE FISCHER, SINGEN | GE.2789B |
| 13 | LINKIE-HOFFMAN, BRESLAU | GN.3824(a) |
| 14 | WALTHER, KIEL | 5410E/P/8, 5410E/P/9 |
| 15 | K.S. & B. FRANKENTHAL | GR.3716 (a) |
| 16 | DAIMLER-BENZ, GAGGENAU | GR.3662 |
| 17 | ASKANIA, BERLIN/FREIDENAU | GL.2613 |
| 18 | JUNGHAUS, SCHRAMBERG | GL.2601 |

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.66 |
| 4 | LE CULOT | ZB.48 |
| 5 | CHIEURES | ZB.50 |
| 6 | SOESTERBERG | ZH.53 |
| 7 | GILZE-RIJN | ZH.54 |
| 8 | BRUSSELS/MILSBROCK | ZB.102 |
| 9 | DEBLEN | ZH.983 |

Forward Rocket Storage Depots - For study by operational Commands.North of the Somme

| | | |
|---|-------------------|--------|
| 1 | RAIMBERT | Z.3329 |
| 2 | ROLLENCOURT | Z.3330 |
| 3 | LUMBRES | Z.3342 |
| 4 | AGENVILLE | Z.3315 |
| 5 | AUCHEY-LES-HESDIN | Z.3314 |
| 6 | LA POURCHINTE | Z.3320 |
| 7 | ST. RICULD. | Z.3323 |
| 8 | BERGUENEUSE | Z.3313 |

South of the Somme

| | | |
|----|--------------------|-------------------|
| 9 | MONVILLE | Z.3333 |
| 10 | BOIS D'ETREJUST | Z.3344 |
| 11 | BEAUMONT | Z.3334(a) and (b) |
| 12 | PONT REMY | Z.3316 |
| 13 | INVAL BOIRON | Z.3322 |
| 14 | AUTHIEU RATIEVILLE | Z.3335 |
| 15 | SALOUEL | Z.3321 |

Temporary suspended from AttackLarge Sites

| | |
|-----------|--------|
| SIRACOURT | Z.3069 |
| WIZERMES | Z.3090 |

Supply Depots

| | |
|-----------------------|------------------|
| FOREST DE NIEPPE | Z.3145G. H. & B. |
| RILLY LA MONTAGNE (a) | Z.3268 |
| RILLY LA MONTAGNE (b) | Z.3255 |
| BOIS DE CASSAN | Z.3257 |
| TROSSY ST. MAXIMIN | Z.3247 |
| MERY SUR OISE | Z.3240 |
| ISLE ADAM II | Z.3256 |
| ISLE ADAM IIIA. | Z.3256(a) |

Industrial & Production Centres

| | |
|-------------------|--------------------|
| PEENEMUNDE | GU.4387 1 and (c)2 |
| | GU.4387 G.2 |
| ZINNOWITZ | GN.3768 |
| HOLLRIEGELSGREUTH | GS.1 |
| FALLERSLEBEN | GZ.2822 |

Fuel Dumps

| | |
|-------|-----------|
| VAAS | 4700/G/6 |
| DUGNY | 4802E/H/7 |
| FACY | 4704E/H/1 |

Tactical Target Dossier No.