

IIIa (36)

FUKUOKA

161

TARGET NO.

90.35

NAME

Fukuoka - Hakata

ZONE

10

CONTENTS

TARGET INFORMATION

J.T.G.

AC/AS

OTHER REPORTS

A-2 Target Info Sheet, Annotated Micair AIC POW AT1-No.5 Sig 2

MOSAIC

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PHOTO INTELLIGENCE DETACHMENT
HEADQUARTERS, XX BOMBER COMMAND
APO 493, NEW YORK, N. Y.

10 February 1945

P.I. REPORT NUMBER A/P-20

- A/C 90.35-1239 #2
- I. JAPAN : Fukuoka/Najima Seaplane Base. SS
- II. LOCATION : 5 miles NE of the town of Fukuoka on the E side of Fukuoka Bay.
- III. COORDINATES : 33°39'N-130°26'E (Kyushu Island).
- IV. MAP REFERENCE : XX B.C. Target Chart No. 39 and AAF Objective Felder No. 90.35, Kurume Area.
- V. PHOTOGRAPHY : LMR55/444BG/30 Dec 44/24"/1:15,000/V7.
- VI. RUNWAYS : None. (Seaplane alighting area).
- VII. FACILITIES : Depot Area: (2900' x 1000').
a. 1 seaplane ramp 135' wide.
b. Concrete maintenance apron 540' x 375' partly covered by a maintenance hangar 195' x 150'.
c. 1 radio station (2 antennas visible).
d. 4 saw-tooth maintenance hangars 360' x 240'.
e. 1 saw-tooth light assembly Bldg. 240' x 180', and two 240' x 120'.
f. 2 probable machine shops 135' x 90', one 120' x 90' and one 135' x 60'.
g. 1 probable spare parts Bldg. 150' x 60'.
h. 4 Adm. Bldgs. 120' x 45', one 100' x 75' and one 240' x 120'.
i. 8 warehouse Bldgs. 110' x 30'.
j. 1 warehouse Bldg. 150' x 45'.
k. 1 warehouse Bldg. 195' x 45'.
l. 3 warehouse Bldgs. 180' x 45'.
m. 1 warehouse Bldg. 135' x 45'.
n. 2 unidentified Bldgs., 150' x 75' and 150' x 150'.
o. Open storage in N and NE section of area.
- VIII. DISPERSAL : None.
- IX. DEFENSES : None visible in area covered by present photography.
- X. ACCESS : Highway borders E side of area. RR lies Approx. 300 Yds. E of area
- XI. A/C ACTIVITY : 3 seaplanes on maintenance apron. 1 seaplane on ramp.
- XII. REMARKS : The Fukuoka/Najima Seaplane Base was formerly located on a point of land Approx. 1000 Yds. SW of the present location. The old installation and its facilities have been absorbed by the new base.

The new seaplane base contains 4th echelon maintenance facilities and probably does work in A/C sub-assembly. Possibility of further expansion on reclaimed land.

The Najima Thermal Electric Power Plant (AAF Target No. 664) lies Approx. 1250 Yds. SW of the new Najima Seaplane Base and Approx. 300 Yds. S of the former location of the base.

- 1 -

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One highway and three RR bridges lie 1400 Yds S of
the new Najima Seaplane Base.

INTERPRETED BY:

CECIL R. BUCHANAN
1st. Lt., Air Corps

APPROVED BY:

George E. Glendening
GEORGE E. GLENDENING
Captain, Air Corps
Commanding

DIST C

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- 2 -
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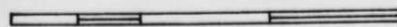


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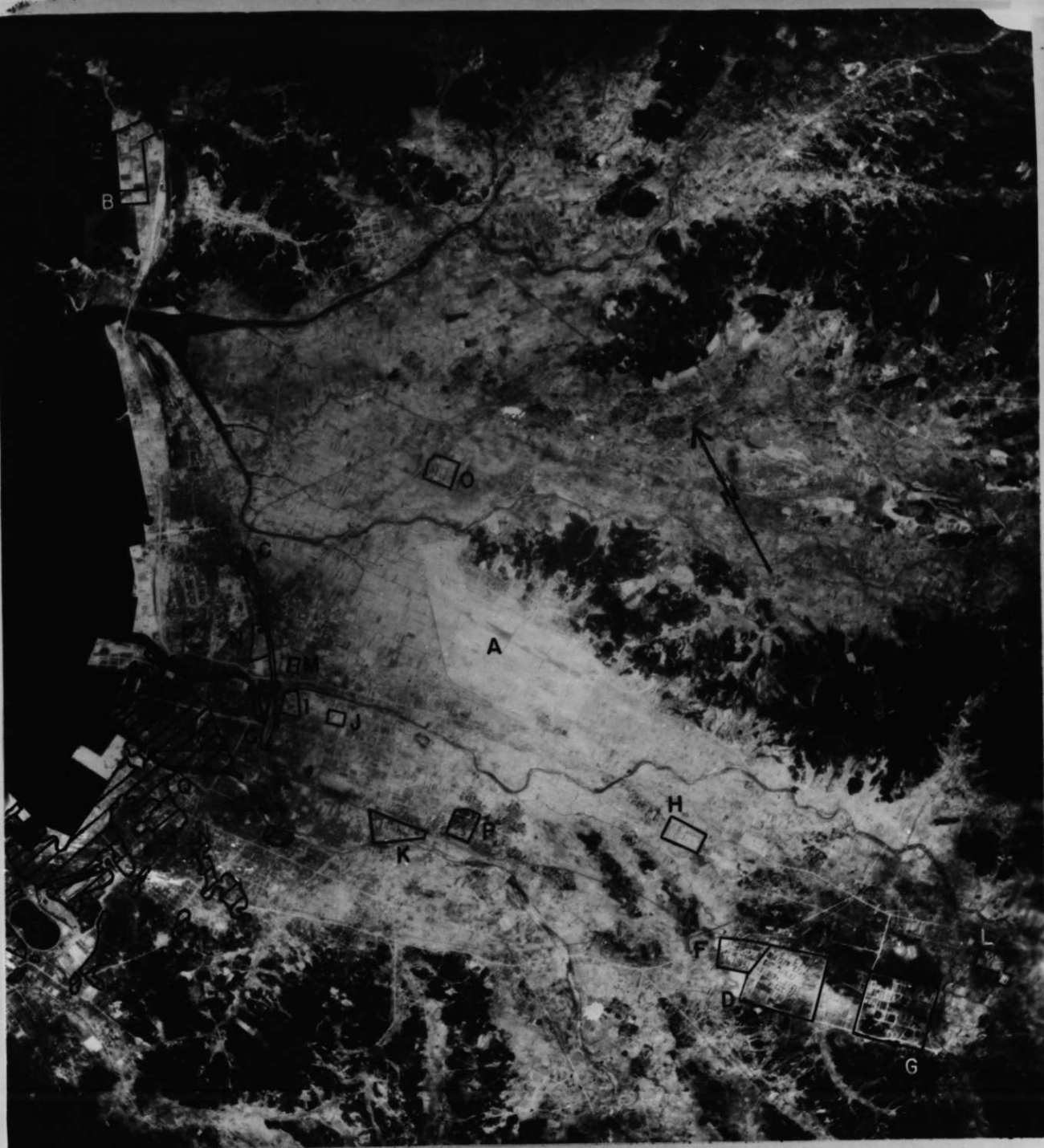
P.I. REPORT NO. A/F-20
FUKUOKA/NAJIMA SS
KYUSHU, JAPAN
33°39'N - 130°26'E

Prepared By: P.I.D. XX BC
Date : 10 Feb 45

1000 0 1000 2000



Approximate Scale In Feet



AIR TARGETS IN THE EASTERN PART OF THE HAKATA-
FUKUOKA REGION, KYUSHU (90.35) AS OF 1 AUGUST 1945

- | | | |
|---|------|---|
| A | 2510 | ITAZUKA AIRFIELD |
| B | 2530 | NAJIMA SEAPLANE STATION |
| C | 1270 | HAKATA RR YARDS AND STATION |
| D | 662 | KYUSHU AIRCRAFT CO., ZASSHONOKUMA PLANT: Airframe parts manufacture and sub and final assembly. |
| E | 2079 | KYUSHU AIRCRAFT CO., KASHII PLANT: Airframe sub and final assembly, possible parts manufacture. |
| F | 1239 | KYUSHU ORDNANCE CO., ZASSHONOKUMA: Depth charges, torpedoes, 10cm naval AA guns, MM MGs, torpedo tubes. |
| G | | KOKURA ARSENAL, ZASSHONOKUMA FACTORY: Products unknown. |
| H | | KYUSHU AIRCRAFT CO., ITAZUKE PLANT: Landing gear for D and E, barracks |
| I | | FUKUOKA STEEL FOUNDRY: Parts for D and E. |
| J | | MATSUMURE IRON FOUNDRY: Parts for D and E. Probable location. |
| K | | NIPPON RUBBER CO., FUKUOKA PLANT: Tires for E and possibly D. |
| L | 1241 | MIYATA MOTOR WORKS: Floats for D |
| M | | RIKEN OPTICAL INDUSTRY: Not now a target, location and products uncertain. |
| N | 1238 | WATANABE IRON WORKS: Not now a target, vacated and used as barracks. |
| O | 1873 | TATARA MACHINERY WORKS: Not now a target, makes field equipment. |
| P | | HAKATA BREWERY: Not a target. |
| Q | | AREA DAMAGED IN XXI B.C. URBAN INCENDIARY ATTACK 19 June 1945. |

AICPOWATI No. 5 - FIG. 2

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PHOTO INTELLIGENCE DETACHMENT
HEADQUARTERS, XX BOMBER COMMAND
APO 493, NEW YORK, N.Y.

9 May 1945.

P.T. SPECIAL REPORT NUMBER 20

SUBJECT : Hakata Harbor
(AAF Target No. 90,35-1255)

LOCATION : Fukuoka, Japan.

COORDINATES : 33°36'N - 130°24'E.

PHOTOGRAPHY : Mission No. : 5178
Print No. : V13, 14, & 15
Date : 6 Jan 45
Organization : 444 BG, XX BC
Time : 0440 Z
Altitude : 30,000'
Focal Length : 24"
Print Scale : 1:15,000

Cominch
ComSowesPac
Op16-VPI
Op 28
Interpcom I
Interpcom II
ComPhibForPac
2 CincPac, PH
✓ CincPac, Adv.

REFERENCE : AAF Air Objective Folder No. 90,35

ENCLOSURE : Annotated Print of Hakata Harbor.

SUMMARY

The harbor facilities at Hakata are not extensive. There is one made-land extension which has Approx. 3000' of deep water berthage, plus warehouse facilities. Another made-land extension of Approx. the same size is under construction. The harbor handles the general cargo for the city of Fukuoka and the exporting of some coal. There is one small-boat repair area equipped to handle boats 150' and under, but no major ship building facilities are present.

DETAILED INTERPRETATION

Harbor:

SE of the Ishido river is a peninsular extension of made-land, rectangular in shape, with an area of 2,100,000 Sq.Ft. This extension has Approx. 3000' of deep water wharfage and is serviced by RR and motor roads. There are 3 cranes in this area. A probable fourth crane is also seen.

Warehouses are located here as follows: 3 Bldgs. 375' x 105', 10 Bldgs. 285' x 38', 6 Bldgs. 120' x 30', 8 Bldgs. 105' x 75', 1 Bldg. 390' x 60', and several smaller Bldgs..

Tied alongside of this extension are 5BN's the length of which are: 210', 140', 105', 75', and 140'. Anchored in the harbor and tied together 570' N of this extension are 2 BN's, 255' and 165'. 5400' N of this extension is a BN 308'.

Just W of the extension is a small-boat basin, 1500' x 450', with Approx. 150 small boats and lighters all of which are under 105' in length. This basin is used for loading and unloading of cargo and as a transshipment point for small boats.

900' W of the small-boat basin is an "L" shaped extension of made-land containing 3,527,300 Sq.Ft. which, when completed, will furnish Approx. the same amount of wharfage as the extension E of it. That this area is still under construction is evidenced by the lack of any buildings and the presence of a dredge just off shore with pipe connections to this area.

-1-

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3150' W of this extension is a small-boat and lighter basin used as a trans-shipment depot. This basin contains Approx. 90 boats, the largest of which is 130'. There are 2 warehouses 285' x 45', 2 warehouses 375' x 45', 1 warehouse 240' x 60' and several smaller Bldgs. in this area. Also located at this basin are repair facilities for boats up to 150'.

4900' E of the Ishido River is a circular boat basin 450' Dia., in which are numerous boats 30' and under.

Total Shipping in Harbors:

1 LW 2300 gross tons.
1 LW 1600 gross tons.
2 small boats 150' x 200'.
8 small boats 100' x 149'.
240 small boats 100' and under (estimated)

INTERPRETED BY:

LEWIS H. OMER, JR
Captain, Air Corps

APPROVED BY:

George E. Glendening
GEORGE E. GLENDENING
Captain, Air Corps
Commanding.

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BUAER # 522-189

SPECIAL P.I. REPORT NO. 20

HAKATA HARBOR

(AAF Target No. 90.35-1255)

FUKUOKA, JAPAN

33° 36'N - 130° 24'E

Prepared By: PID XX BC

Date: 9 May. 45

500 0 1000 2000

(Approx. Scale in Feet)

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C. I. U.
XXI BOMBER COMMAND
APO 234, c/o POSTMASTER
SAN FRANCISCO, CALIFORNIA

29 June 1945

DAMAGE ASSESSMENT REPORT NO. 97

FUKUOKA CITY

Mission No.: 3PR5M 289

Target Area: Kurume (90.35)

Date Flown: 21 June 1945

Airplane Commander: W.L. Abbott,
1st Lt, AC

XXI Bomber Command Mission 211 of 19-20
June destroyed 21.5 percent (1.37 square miles)
of Fukuoka City's built up area.

The city had not been damaged previously.*

Two numbered targets damaged include:

Target 1255, Hakata Harbor, 30% of buildings destroyed.

Target 1270, Hakata Railroad station and yards,
.....minor damage.

Damage is centered around the harbor area
and scattered throughout the city. A very small
amount of spotty damage extends into Chiyomachi
and Hokazakimachi.

*Note: The political boundary of Fukuoka City
(as shown in AMS, Fukuoka, Kyushu, Sheet 4147-1)
encloses an area of 8.4 square miles. The built
up area, including Chiyomachi and Hokazakimachi,
totals 6.56 square miles. Fukuoka, Chiyomachi and
Hokazakimachi constitute one target area known as
Fukuoka (see Inclosure No. 1).

References: AMS Fukuoka, Kyushu, Sheet 4147-1.
AAF Air objective Folder 90.35
1 July 1944.

This report is based on pre-strike photos from 3PR5M 121
and post-strike photos from 3PR5M 289.

Inclosures: 1. Outline map.
2. Annotated mosaic (pre-strike).
3. Mosaic (post-strike).

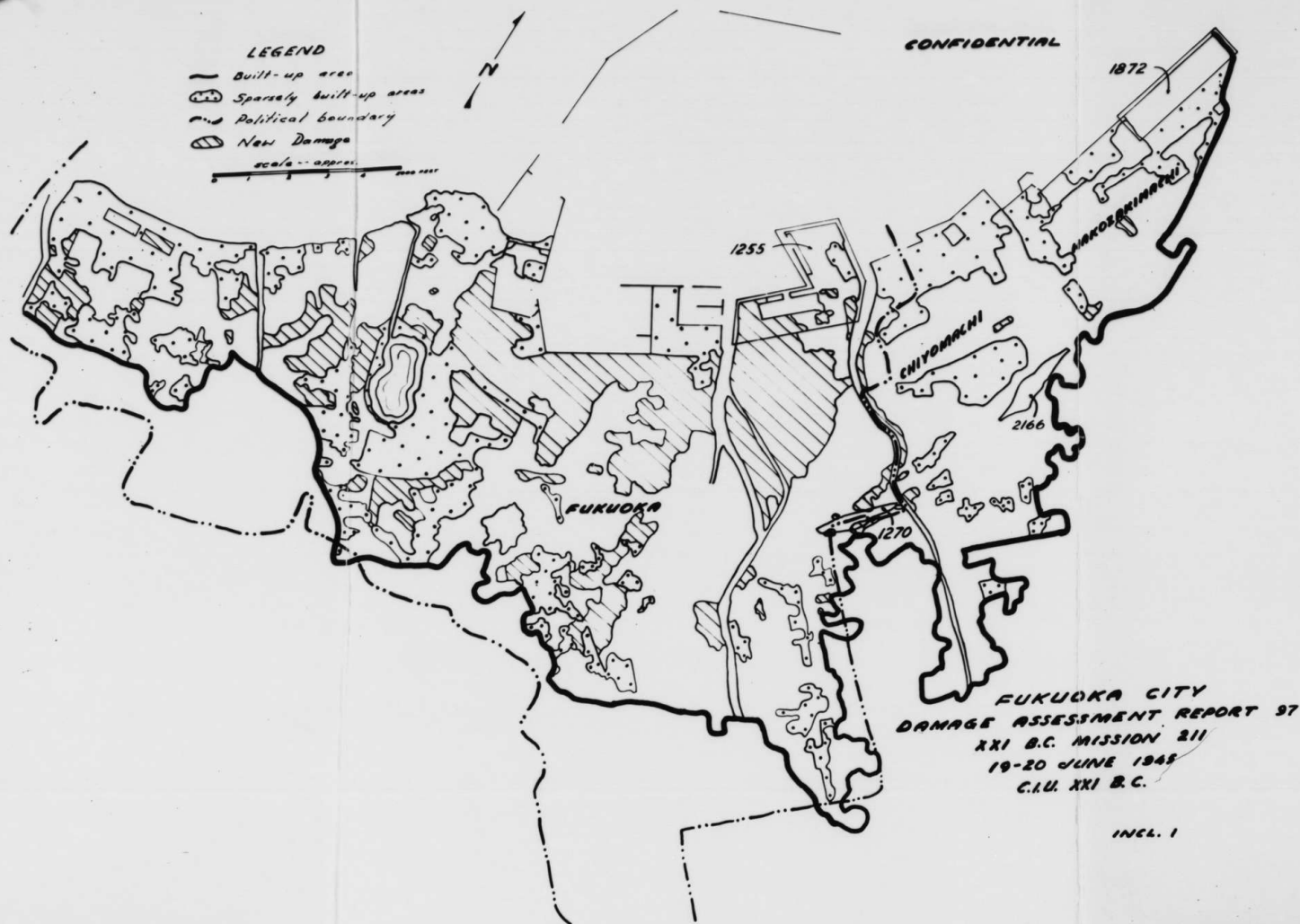
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Approved.....

HAMILTON D. DARBY
FOR MAJOR, AC

CAPTAIN

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POST STRIKE
FUKUOKA CITY
DAMAGE ASSESSMENT REPORT 97
XXI B.C. MISSION 211
19-20 JUNE 1945
C.I.U. XXI B.C.

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C. I. U.
XXI BOMBER COMMAND
APO 234, c/o POSTMASTER
SAN FRANCISCO, CALIFORNIA

(Combined Photo Interpretation Sections:
3rd Photo Reconnaissance Squadron
and
35th Photo Technical Unit)

9 April 1945

SURVEY REPORT NO. 74

Mission No.: 3PR5M 121

Target Area: Kurume, Shimonoseki

Date Flown: 6 April 1945

A/C Commander: Frank W. Scheible
Capt., AC

Altitude 30,000'

Reference: a. AAF Air Objective Folder 90.34
b. AAF Air Objective Folder 90.35
c. ONI 222-J July 1944
d. ONI 208-J January 1945
e. Recognition Manual, Vol. 18, January 1945

SUMMARY

This report surveys the following targets:

Target 663 - Gannosu Airfield (A/C count)
Target 1237 - Najima Seaplane Station (A/C count)
Saitozaki Airfield (A/C count)
Hakata Seaplane Station (A/C count)
Itazuke Airfield (A/C count)
Shipping - Wakamatsu-Tobata, Otake Anchorage, Ship
Anchorage between Eta-Jima and Nishi-Nomi-
Shima, Ube Harbor, Tokuyama Bay, Suo Nada,
Shimonoseki Straits and Hakata Bay.
Target 1238 - Watanabe Iron Works
Target 1265 - Nippon Rubber Co.
Target 1270 - Hakata RR Yards & Station
Target 1873 - Tatara Machinery Works
Target 1119 - Hatabu RR Shops & Yards
Target 662 - Watanabe Aircraft Plant
Target 1239 - Kyushu Ordnance Plant
Target XXI 6147 - Unidentified Industry
Target XXI 6148 - Unidentified Steam Power Plant

TARGET 663 (33/40 N--130/24 E) Gannosu Airfield

Aircraft visible: 65

(56 on 31 March 1945)
9 damaged not included
in total

35 S/E
30 T/E (11 prob. Mick,
4 prob. Irving,
1 Topsy, 7 Tabby,
7 Unidentified)

Reference prints 2: 12, 13 and 3R: 20-23
Last previous report - CIU Survey Report No. 69
No prints attached

TARGET 1237 (33/39 N--130/26 E) Najima Seaplane Station 60% coverage

Aircraft visible: 3 S/E

(8 on 31 March 1945)

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Survey Report No. 74, Cont'd.

Reference prints 2: 8-10
Last previous report - CIU Survey Report No. 69
No prints attached

SAITOUZAKI AIRFIELD (33/39 N--130/21 E)

Aircraft visible: 79 (30 on 31 March 1945)

71 S/E
8 T/E

Reference prints 2: 13, 14
Last previous report - CIU Survey Report No. 69
No prints attached

HAKATA SEAPLANE STATION (33/39 N--130/22 E)

Aircraft visible: 11 S/E (13 floatplanes on
31 March 1945)

5 unidentified A/C
inside hangar

(Roofs removed from 2 main hangars)

Reference prints: 2: 13, 14 and 3L: 23-25
Last previous report - CIU Survey Report No. 69
No prints attached

ITAZUKE AIRFIELD (33/35 N--130/27 E)

Aircraft visible: 29 (No count on 9 March 1945)
6" coverage only

13 S/E
16 T/E

9 S/E dummy A/C and 1 T/E
damaged A/C not included in
current total.

Runways: 3, surfaced.

NNE-SSW	300' x 4700'
NW-SE	300' x 5500'
NW-SE	190' x 4600'

Reference prints 2: 2-4 and 3L: 3-7
Last previous report - CIU Survey Report No. 44
No prints attached

WAKAMATSU-TOBATA (33/55 N--130/49 E) Shipping

Approximately 50-60 vessels over 200' - 6" oblique only.

Reference prints - 1R: 25, 26
No prints attached

OTAKE ANCHORAGE (34/12 N--132/14 E) Shipping

1 CL, 5 probable DD's and 2 unidentified ships over 200'.
6" coverage only.

Reference prints 1V: 53, 54
No prints attached

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Survey Report No. 74, Cont'd.

SHIP ANCHORAGE (34/15 N--132/27 E) between Eta-Jima and Nishi-Nomi-Shima

1 CA and 2 unidentified ships over 200' - 6" coverage only.

Reference prints 1V: 56, 57

No prints attached

UBE HARBOR (33/57 N--131/12 E) Shipping

3 Vessels over 200' - 6" coverage only.

Reference prints 1V: 33, 34

No prints attached

TOKUYAMA BAY (34/03 N--131/47 E) Shipping

Approximately 12 ships over 200' - 6" coverage only.

Reference prints 1V: 44, 45

No prints attached

SUO NADA (33/57 N--131/45 E) Inland Sea (near Tokuyama) Shipping

1 BB - Yamato

1 CL - Agano

1 DD - Takanami

5 DD - Unidentified

Reference prints 1V: 42, 43 and 2: 37-39

No prints attached

SHIMONOSEKI STRAITS (33/57 N--130/57 E) Shipping - 6" coverage only

4 Repair type vessels, possible minesweepers

4 Type E M/V (Mod)

1 Type Tare Sugar M/V

39 Ships unidentified

Reference prints 1V: 27-29 and 2: 23-27

No prints attached

HAKATA BAY (33/36 N--130/24 E) Shipping

No naval vessels present

1 Flakship, possible

1 Tare Able

1 Sugar Able Sugar

6 Type E (Mod)

5 Unidentified over 200'

Reference prints 1V: 14, 15 and 2: 9-13

No prints attached

TARGET 1238 (33/36 N--130/25 E) Watanabe Iron Works

Location not confirmed. No industrial type building exists in area shown in reference. An industrial area located just SW of the reported site does not appear to be a heavy munitions plant as is claimed in the reference. It is not likely that Target 90.35-1238 is in this area.

Reference: a b

Annotated and attached 2: 5

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Survey Report No. 74, Cont'd.

TARGET 1265 (33/35 N--130/26 E) Nippon Rubber Co.

Location not confirmed. The plant is located on the S side of the RR, about $\frac{1}{2}$ mile SW of the location reported in the reference.

Reference: b
Annotated and attached 2: 5

TARGET 1270 (33/36 N--130/25 E) Hakata RR Yards & Station

Location confirmed.

Reference: b
Annotated and attached 2:5

TARGET 1873 (33/36 N--130/27 E) Tatara Machinery Works

Location confirmed.

Reference: b
Annotated and attached 2: 5

TARGET 1119 (33/58 N--130/26 E) Hatabu RR Yards & Shops

Location confirmed.

Reference: a
Annotated and attached 2:121

TARGET 662 (33/32 N--130/27 E) Watanabe Aircraft Plant

Location confirmed - 6" coverage only.

Reference: b
Annotated and attached 1V: 13

TARGET 1239 (33/33 N--130/28 E) Kyushu Ordnance Plant

Location confirmed - 6" coverage only.

Reference: b
Annotated and attached 1V: 13

TARGET XXI 6147 (33/36 N--130/25 E) Unidentified Industry.

An irregularly-shaped plant area covering 540,000 sq. ft., containing 6 major buildings occupying 120,000 sq. ft. This is one of two plants S of the Saibo Gas Co. which might be considered to be Target 1238, Watanabe Iron Works.

Reference: b
Annotated and attached 2: 5

TARGET XXI 6148 (33/58 N--131/10 E) Unidentified Steam Power Plant

A rectangular plant area covering 700,000 sq. ft., containing 2 major buildings occupying 84,000 sq. ft.

Reference: AAF Air Object Folder 90.32
Annotated and attached 2: 32

Approved *[Signature]*
HAMILTON D. DARBY
MAJOR, AC

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3PR 5 M121-14:13

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SURVEY REPORT NO. 74
C.I.U. XXI BOM. COM.



SURVEY REPORT NO. 74
C.I.U. XXI BOM. COM.

3 PR 5 M121-2:21

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SURVEY REPORT NO. 74
C.I.U. XXI BCM. COM.



NO 1238
REPORTED LOCATION

NO XXI- 6147

NO. 1270

1265

NO. 1873

SURVEY REPORT NO. 74
C.I.U. XXI BOM. COM.

3PR 5 M121-2 5

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NO 1238
(REPORTED LOCATION)

NO XXI-6147

NO. 1270

①

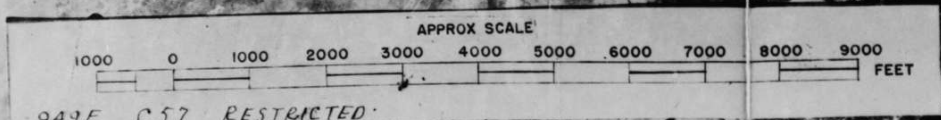
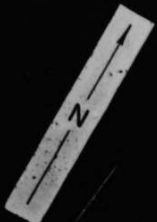
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OLD

Fukusaka Seikaku II

SU
C.







**POST STRIKE
FUKUOKA CITY
DAMAGE ASSESSMENT REPORT 97**
XXI B.C. MISSION 211
19-20 JUNE 1945
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INCL. 3

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XXIBC3PR5MI92

6 MAY 1945

INTERPRON TWO-186.428A



33°32'N. 130°27'E.

KURUME AREA, KYUSHU

90.35-662 KYUSHU A/C PLANT

3PR 5 M121-14:13

¹³
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SURVEY REPORT NO. 74
C.I.U. XXI BOM. COM.

TARGET 662 (33/32 N--130/27 E) Watanabe Aircraft Plant

Location confirmed - 6" coverage only.

Reference: b

Annotated and attached LV: 13

1/6,000

Idg no.	Use	Rough Dimensions	Rough Size	Total
---------	-----	------------------	------------	-------

Leptl Charges

32	^{2/3} drum const + ^{1/3} gun shield	250 x 175	12 000	
44a	ass	260 x 100	26 000	

38 000

Torpedoes

3	torp parts mach shop	400 x 200	80 000	
7	"	380 x 220	83 600	
12	torp ass + Ac parts	150 x 160	24 000	
13	"	150 x 125	18 750	
18	"	200 x 160	32 000	

238 000

10 cm

Guns

17	^{2/3} parts + ass	109,200 280 x 390	72,8 000 169	
32	^{2/3} drum const + ^{1/3} gun shield	250 x 175	24 000	97 000

Automatic weapons

17	^{1/3} parts + ass	280 x 390	36,4 000	36 000
----	----------------------------	-----------	----------	--------

Torp tubes mounts

24	torp tube shop	320 x 200	64 000	64 000
----	----------------	-----------	--------	--------

26	wrought iron	200 x 200	40 000	
24	casting	250 x 120	30 000	

1 Aug questions on Kyushu Ordnance.

1. Are torpedoes arial or ship or sub ~~has propellers~~
2. Did POW ever hear of anything at Kawatana? yes.
there is a Kawatana factory of Sasebo Arsenal making
arial torpedoes. Can there be any connection between
Kyushu Ordnance & Kawatana, or does Kawatana do
arial torps entirely & Kyushu do ship & sub?
3. are mgs 25 mm for certain. ~~thinks that is all.~~
must check this with nameplate data. Report 84 M15
were they for aircraft or ground or ship use ~~ship~~
not on plane in photos.
4. What would 10 cm guns be used for if they
stopped using them on destroyers or stopped building
destroyers? ~~yes~~ land.
5. Can you help the POW work out a percentage of effort
devoted to each product, not merely a priority
of importance? Even a guess is better than
our guess. ~~none~~
6. Were depth charges loaded with powder here? yes, heard
if not, where. ~~seen where but has heard that they do.~~
In what form did raw material for casings arrive? ~~shut down~~

Was it sheet iron or sheet steel? ^{iron}

Did it come from Fukuoka Steel Foundry YAWATA Seitetsu.

Matsunuma Iron Foundry

Shoua Iron Works

or was it made here

Where did fuses come from? ^{outside}

Rate of production

7. Where did raw material for torpedoes come from? ^{Yatata}

Were they all driven by compressed air

Did he ever hear of electric motors & batteries going into some of the torpedoes.

Where were warheads loaded with powder?

Were warheads made here?

^{new, all parts here built}
^{don't know warhead}

Or were only motors (air or electric) made here? ^{yes}

Where were torpedoes tested? ^{is shown #21}

8. Were 10 cm guns for AA, or surface fire or dual purpose? ^{for surface fire also}

~~Did he say AA~~ Angle of ~~set~~ elevation permitted by the mount should tell.

Was this a recently developed type of gun?

Was it considered hot stuff?

^{newest stuff}

9. Where did raw material for gun shield & breech mechanisms
come from? Yokota

What is the barrette?

How does it differ from the gun shield?

10. Does plant make any depth charge throwers or racks
If not, where are these made.

hasn't seen
doesn't know

11. Has POW heard of KAIBOKAN No 1 & No 2, "sea
defense vessels, = to U.S. frigates & DEs?

maybe
they have 4.7" guns which are about 12 cm guns.
might be 10 cm guns NO

12. Did POW ever hear names of sound locators

Temporarily designated Type A weight 1.4 tons

Type 97

Type 90

Provisional WE aerial type

3

26 tons

Type 90 has horns in 2 sections: straight bell + curved section
on adjustable tripod, scaled dials above tripod head

Did POW ever hear of Type 99 interlocking device to connect
sound locator & searchlight NO

Did POW ever hear of Type 96, Model 1, 150 cm searchlight
no

Ever see one

Was his sound locator designed to go with this light? no

Did he ever hear of Type 2, Mark 1 range finder

" Type 2 elevation transmitter no

See photo in picture section of ONI weekly!

Show photo to POW after asking POW to sketch
the sound locator.

In what bldgs were "receiving devices" made ^{associated in 117} all over

Did any of them or parts for them come in from sub contractors
?

Were the 10 cm in single, double or triple mounts
ditto the 25 mm. 2

Note KAIBOKAN uses 25 mm in ~~triple~~ mounts

Were all parts of the mg made here? Yes,

Can't he draw in location of mg parts mfg & mg assembly
in floor plan of bldg 13 (old number)?

Were torpedo tube mounts ever for ^{not used} land use or only ^{ship} sea?

On what products was wrought iron used?

sound locators? bldg 24 new

What ~~so~~ things were cast in the casting shops? ^{bldg} 29 new

Why can't POW estimate rate of production of 10 cm gun
if he assembled breech block? ~~worked on sound devices~~

Can POW estimate no. of employees 5,000

How many shifts

Give starting & stopping of each.

2
different

~~whole
works
all time~~

Parts from Sasebo

Does this mean

Naval Arsenal

Yes

" " Yawata

"

Japan Iron Works,

Yawata plant

90.34-28

Identify bldg 8, 5, 14, 1a, 2a, 40a, 41, 42, 43

Could bldg 23 be electric motors

for torpedoes?

No

to large totem

Go over FA and get a list of both products

worked on and processes carried out in each

building.

What are most important machines in the plant

17

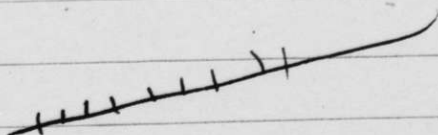
Misc .

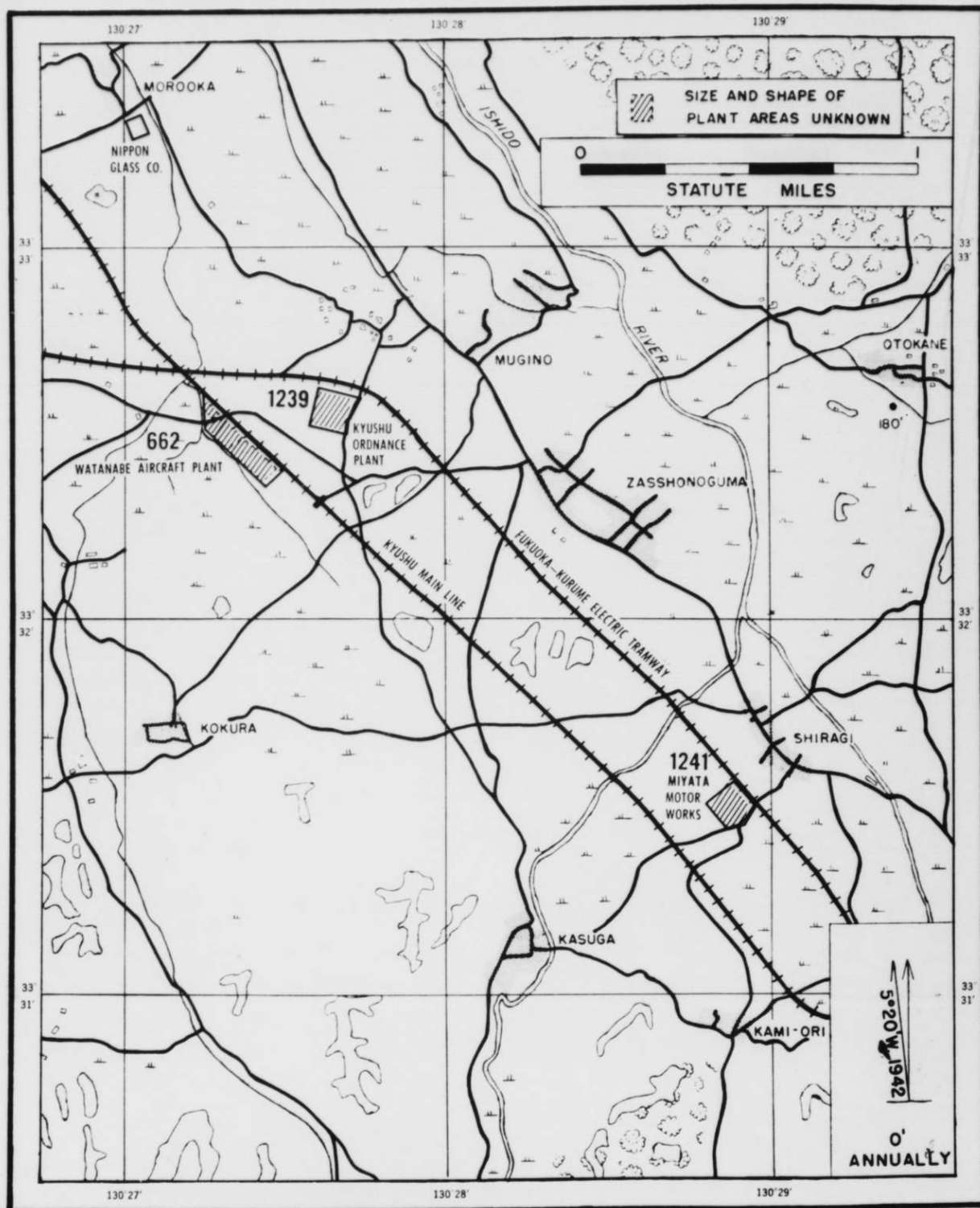
On blue overlay, POW locates the following

1- "A" - small plant making landing gear for "P", WATANABE Aircraft Co.

2- "C", "B" barracks.

Lead





ZASSHONOGUMA REGION

ELEVATIONS IN FEET

RAILROADS
ROADS

ADAPTED FROM JAPANESE NAVAL AIR CHART 1941
JAPANESE IMPERIAL LAND SURVEY 1930
U. S. H. O. 1940, HYDROGRAPHIC CORRECTIONS 1942

662 . WATANABE AIRCRAFT PLANT
1239 . KYUSHU ORDNANCE PLANT
1241 . MIYATA MOTOR WORKS

DATE OF ANALYSIS--APRIL 1944

SOURCE:

Air Objective
Folder 90.35

KURUME AREA

MAP M4

AICPOMATI #5

Fig. 1



Much of explosive charge for torp., mines, depth charges
made at Kure "A"

Type 88 powder main charge depth charges
 & some of mines

packed granular form

Tried to substitute temp. type 1 powder, gave up, return to type 88

Fergie checked files
could find nothing 4 ang.

Kyushu Ord. List

#5

C NO including 14

JTG 2
 Chief, MIS 2
 Coll Dirn, AC/AS, HQ, MAF 2
 of 16 FE 1

Comairpac 5

Com Gen USAF 1

Com Gen 20th AF 2

Com Gen 8th AF 2

Com Gen FEAF 5

Jicpa 3

CO, Interpreter 2 1

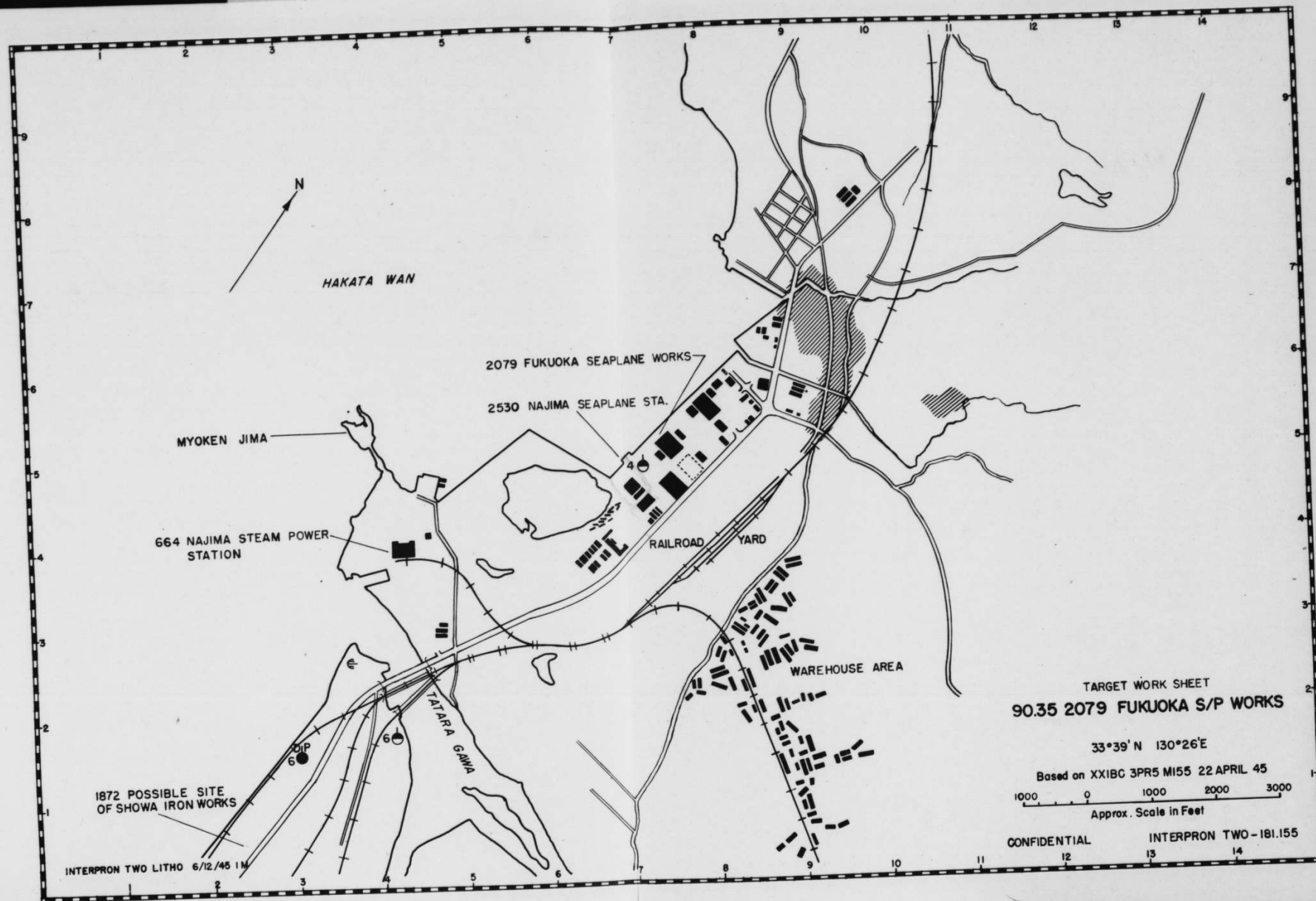
CO, Naval Unit, West Coast 1

ATIS, APO 500 1

SEATIC

36
 Cincpac 8
 Ref 1
 Gen 1
 Targ. 2
 Spare 17
 55

Ref
lean



TARGET WORK SHEET
90.35 2079 FUKUOKA S/P WORKS

33°39' N 130°26' E

Based on XXIBC 3PR5 MI55 22 APRIL 45

1000 0 1000 2000 3000
Approx. Scale in Feet

CONFIDENTIAL INTERPRON TWO - 181.155
12 13 14

- ① Kyushu A/C Co., Kashii Plant
what planes made?? *rangeiki sentoku* many planes
F/A? *to Sasebo*
dispersing to where?

(gitabaki)

2. Tataru Machu Wks
products
prime contractors

3. Old Watanabe
empty? used as baracks

4. area of reported Fukuoka Seikosha
probably not where is it? in Katakasu-machi & Hie-machi

5. u/i factory in Niiga ?

6. Riken? what?
products
prime contractors ?

7. u/i

8

Matsumura Tekkoshu ?

products prime contractor is Kyushu A/c (?)

?

9

Nippon Rubber

main plant in Kurume

A/c tires for Kyushu A/c ? yes

auto tires for Miyata ?

bike

? yes

prefecture

many concrete structures right ASahi

10

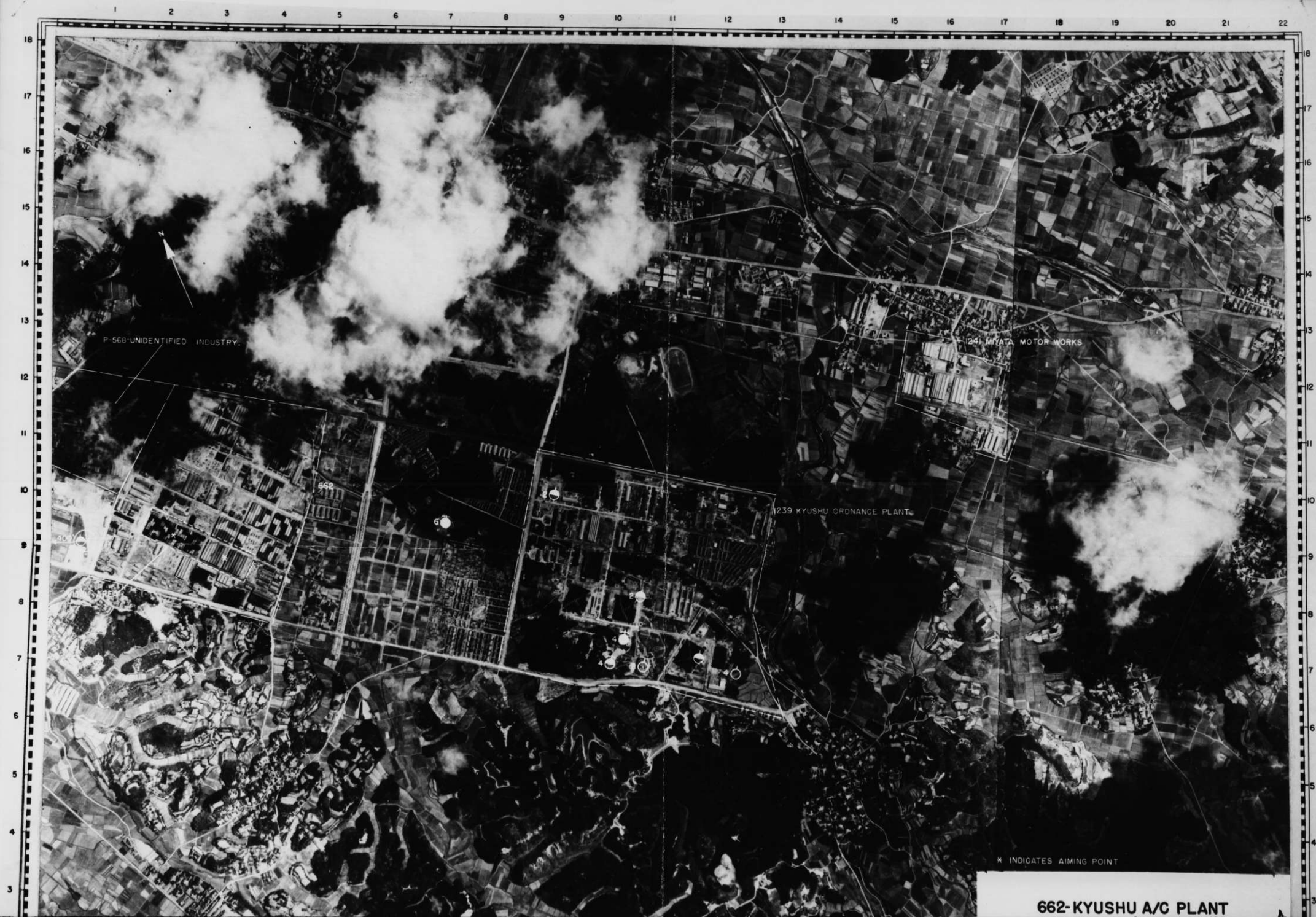
Miyata Motor Works

Amabaze A/c engines for Kyushu A/c ?

very possible

ITAZURA KOJO





P-568 UNIDENTIFIED INDUSTRY.

241 MIYATA MOTOR WORKS

1239 KYUSHU ORDNANCE PLANT

* INDICATES AIMING POINT

662-KYUSHU A/C PLANT



* INDICATES AIMING POINT

662-KYUSHU A/C PLANT

KURUME AREA, KYUSHU

33°32'N

130°27'E

XXIBC 3PR5M192 6 May 1945

500 0 500 1000 1500

Approx. Scale in Feet

CONFIDENTIAL

INTERPRON TWO-328.100

REVISED TO XXIBC3PR5M227 23 MAY 1945





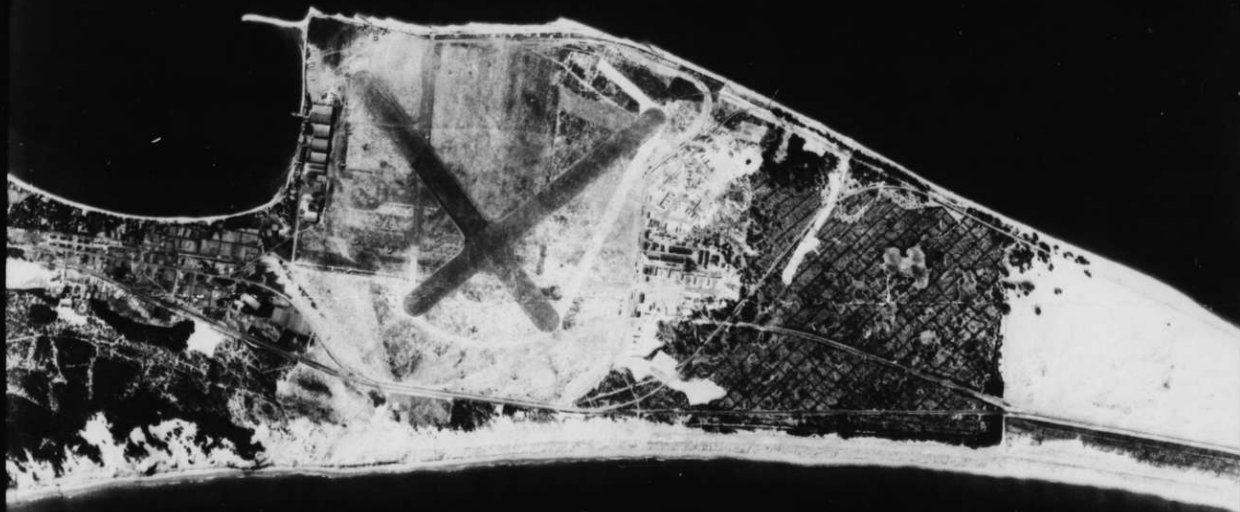
55

200 34/80-7

XXI

RESTRICTED

30 APRIL, 1945
32,000'





0771 EASTMAN KODAK CO. 35111

0772 EASTMAN KODAK CO. 35111

0773 EASTMAN KODAK CO. 35111

0774 EASTMAN KODAK CO. 35111

88



0775 EASTERN REGIONAL MAP 11

0776 EASTERN REGIONAL MAP 11

0776 EASTERN REGIONAL MAP 11

20-34/80-77

XXI 1000 1050 1100 1150 1200 1250 1300 1350 1400 1450 1500 1550 1600 1650 1700 1750 1800 1850 1900 1950 2000 2050 2100 2150 2200 2250 2300 2350 2400 2450 2500 2550 2600 2650 2700 2750 2800 2850 2900 2950 3000 3050 3100 3150 3200 3250 3300 3350 3400 3450 3500 3550 3600 3650 3700 3750 3800 3850 3900 3950 4000 4050 4100 4150 4200 4250 4300 4350 4400 4450 4500 4550 4600 4650 4700 4750 4800 4850 4900 4950 5000 5050 5100 5150 5200 5250 5300 5350 5400 5450 5500 5550 5600 5650 5700 5750 5800 5850 5900 5950 6000 6050 6100 6150 6200 6250 6300 6350 6400 6450 6500 6550 6600 6650 6700 6750 6800 6850 6900 6950 7000 7050 7100 7150 7200 7250 7300 7350 7400 7450 7500 7550 7600 7650 7700 7750 7800 7850 7900 7950 8000 8050 8100 8150 8200 8250 8300 8350 8400 8450 8500 8550 8600 8650 8700 8750 8800 8850 8900 8950 9000 9050 9100 9150 9200 9250 9300 9350 9400 9450 9500 9550 9600 9650 9700 9750 9800 9850 9900 9950 10000 10050 10100 10150 10200 10250 10300 10350 10400 10450 10500 10550 10600 10650 10700 10750 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30

XXIBC

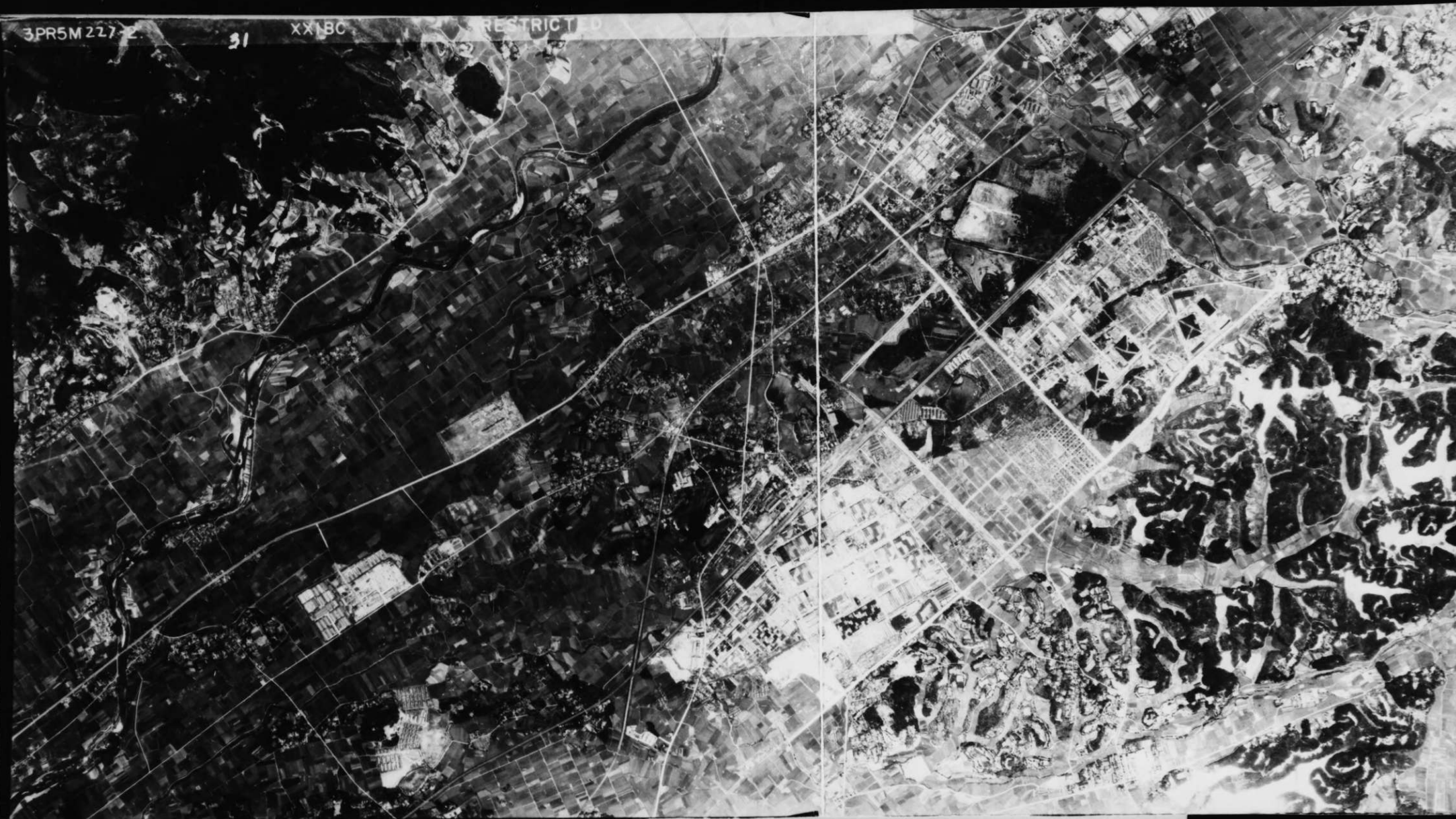


3PR5M227-2

31

XX1BC

RESTRICTED





F/A.



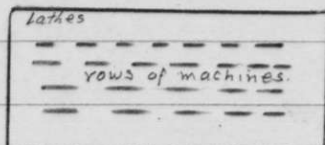
1

1- Temple for factory workers.

2- Torpedo parts machine shop.

press guard shack w/ig POW 2

3



3- Office building

4

4- Compressed air machines

5

5- Cafeteria

no Hdg.

6

6- Torpedo parts machine shop. (similar to #2)

7

7- Guard hut

8

8- Time card punch office

10

9- Bicycle stand.

11

10- Torpedo assembly building. Also POW has heard that it makes some parts in this building for Aircraft plant across street. Only small machines like drills.

13

11- Torpedo assembly building

14

12- Compressed air building

like 2

in 16

barbette 15

17

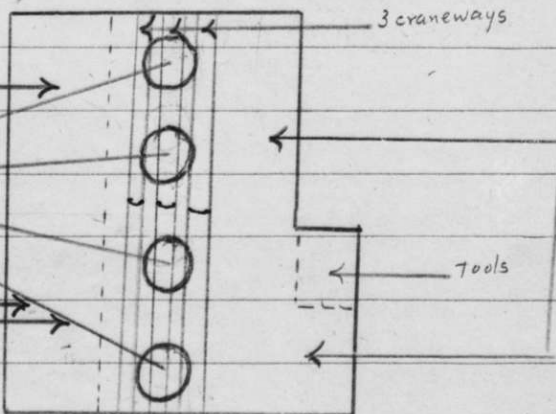
13- Assembly for 10cm gun, 25 mm MG. All parts for 10cm gun except barrel and parts

13a- Machines for parts of both.

Concrete pits in the center of which is a turn table on which to set the 10cm gun. Here it is assembled

Special machines

Lathes
Drills



- 14- Torpedo assembly building. Only small machines like drills. 18
- 15-20- Buildings unknown but electric repairs building and copper shop
are among them. 19 a b c d e f
- 21- Torpedo experimentation 20
- 22- " " pool. 21
u/i 22
- 23- Torpedo tube shop. 24
u/i 25 a b c
- 24-25- Wrought iron shops (Should have some chimneys about 20
yards high) 26 a b c
u/i 27
u/i 28
- 26- Casting shop 29
- 26a- Some kind of a motor shop. POW can not describe motors. 23
- 27- Office 30
- 28- Woodwork shop. 31
- 29- Depth charge drum construction. Also all heavy metal work like
10 cm gun shield etc is done here. 32
- 30- Lunch house. 33
- 31- Store room. Contents unknown. torn down 34
- 32- Office { 35 a
- 32a- Storeroom. Contents unknown. { 35 b
- 33- Restrooms 36
- 34- Miscellaneous shop. 39
- 35-39- Added since POW was there 35-37
36-38
u/i 40 a b c
- 40- Head 42
- 41- Storeroom - nuts, bolts, small parts. 41
u/i? 42

head ? 43

- 42 - Depth charge assembly shop.
- 43 - Storeroom. Contents unknown. 44 a+b
w/i 45, 46, 47
- 44 - Time card office and punching. 50
48
- 45 - Bicycle stand.
- 46-50 - School for factory workers or their children. 49
w/i 52
w/i 51
- 51 - Training school for factory work. 53-59
60
w/i 61
- 52 - There should be some smoke stacks here ~~58~~ 62
- 53 - Probably addition to factory - possibly barracks.
- 54 - Office of boss for both plants (in aircraft plant)
- 55 - Assembly building (in aircraft plant)

new area { w/i 63
w/i 64

Structural Analysis

POW gives the following information from observation of building #13 in which he worked. He stated that he had never noticed carefully but he believed that the remaining buildings with exception of some of the smaller ones were constructed in the same fashion.

A. Framing ✓

1. Buildings are one story structures although some are higher than others.
2. The columns upholding portion of roof bearing cranes are made of steel, track like uprights. () Other columns holding up lighter structures and usually lower structures are wood.
3. i.e. In building #13 there are 3 ^{cranes} cranes that move along the building lengthwise. Consequently there are not too many beams running crosswise.

B. Walls ✓

1. From the ground, about $\frac{1}{2}$ way up the wall is brick concrete.
2. The space, from $\frac{1}{2}$ way up to the roof is taken mainly by numerous windows.
3. POW says about 6-8" thick for the walls and usually they were made of brick covered on both sides by S.

40
40
80

a thin layer of concrete.

C Floors ✓

1. For the most part the floors are of concrete although in a ~~few~~ parts of a few buildings they are wood.

D Roof ✓

1. Roofs are made of "benri kawara" which literally translated means "handy tile". From what POW says this is probably some prefabricated slate-like substance which is probably short of $\frac{1}{4}$ " thick. POW said that he thought it was a little thicker than tin roofing.

E Foundation ✓

1. Uprights go into concrete floor and are braced with iron on the sides. 

F. Wall Openings ✓

- 1 As marked in blue on overlay.
2. Two buildings are marked and POW believes the rest to be similar. Building #13 is the only one with doors marked "X".
3. "X" door is thin metal that ^{slides} opens from top to bottom. Size 15' x 15'
4. Remaining doors are constructed of wood with the top half made of glass () and slide back and forth. Size 10' x 9'

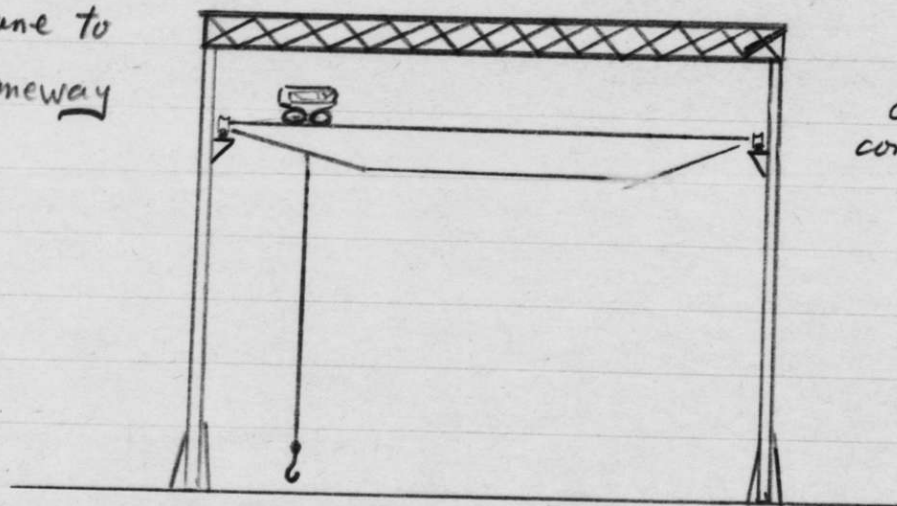
G. Structural protection.

1. According to POW, in no building are there any subdividing walls that would be over one thin thickness of wood.
2. Most of the larger machines are covered in part by a metal covering. lathes etc. have no protective covering. POW is very vague on this subject.

H. Building 13-13a. ✓

POW states that the cranes in this building are constructed in the following manner.

one crane to
each craneway



all steel
construction

Jun 43 Jun 44

1

1. NAME - Kyushu Heiki KK (Kyushu Ordnance Co. Ltd)
Previously from Oct. 1943 it was changed from
KK WATANABE TEKKO SHO, HEIKI BU (WATANABE
IRON WORKS LTD, Ordnance Section)

2. POW says that he believes that the original
WATANABE IRON WORKS in FUKUOKA is no longer
operational but that it is only hearsay.

b) Although the KYUSHU Ordnance CO. and the WATANABE
Aircraft Co were one company and then separated
in 1943, they are still under the control of one man,
WATANABE.

2.

A. POW is not sure of boundry near the chimneys at
52 but knows that there is a playground north of
the school. The actual plant continues only to the
road on the north side. Other boundries are
clearly set forth except for boundries around
53. POW seems to think that the construction
here was done after he had left the plant but
does know however that this is one part of company
probably barracks.

B. It was POWs belief that the electric power for this
plant was generated here. However he was not able
to locate it saying first that it should be here and
then it should be there. Electric power was used almost
exclusively here at the plant.

Economic Assessments.

A. Products.

1. Mounts of 6 Torpedo tubes according to POW. Does not know where they are used. Type unknown.
2. 10 cm. gun - barrel and barbette usually made at SASEBO and shipped to the plant although they have had times when they made the barbette also here at the plant. Remainder of gun including receiving devices made here. These guns are made for use on DD's.
3. Depth charges  diameter $1\frac{1}{2}'$ - $2'$; length approx $2\frac{1}{2}'$ - $3'$. Type, serial no. etc unknown.
4. Torpedoes - type, model etc unknown.
5. MG 25 mm. ✓

~~B.~~ Effort devoted to each in following order - 3, 4, 2, 5, 1

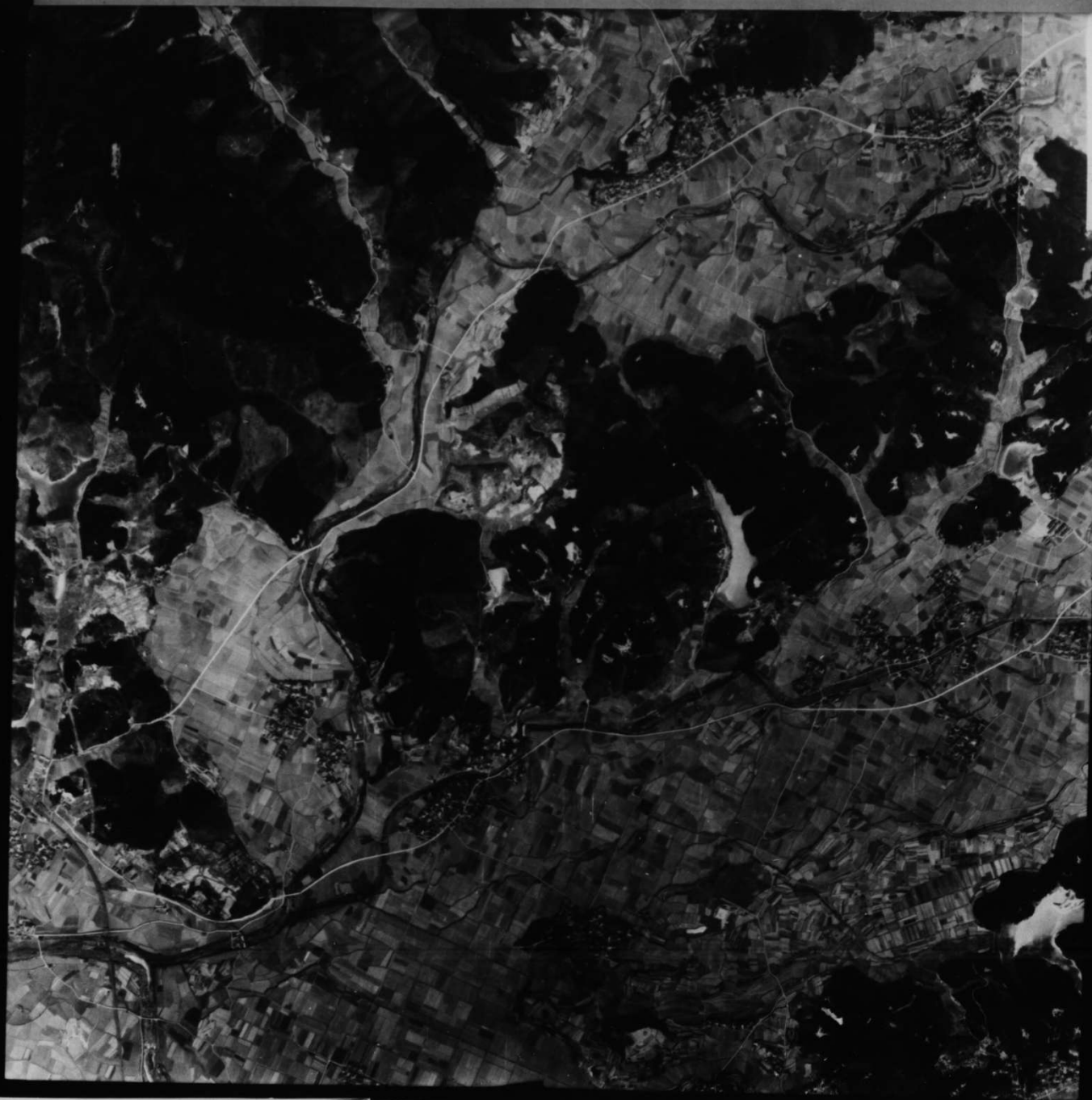
C. Raw materials and small parts come mostly from SASEBO, YAWATA or various small factories in FUKUOKA city, the names of which POW claims not to know.

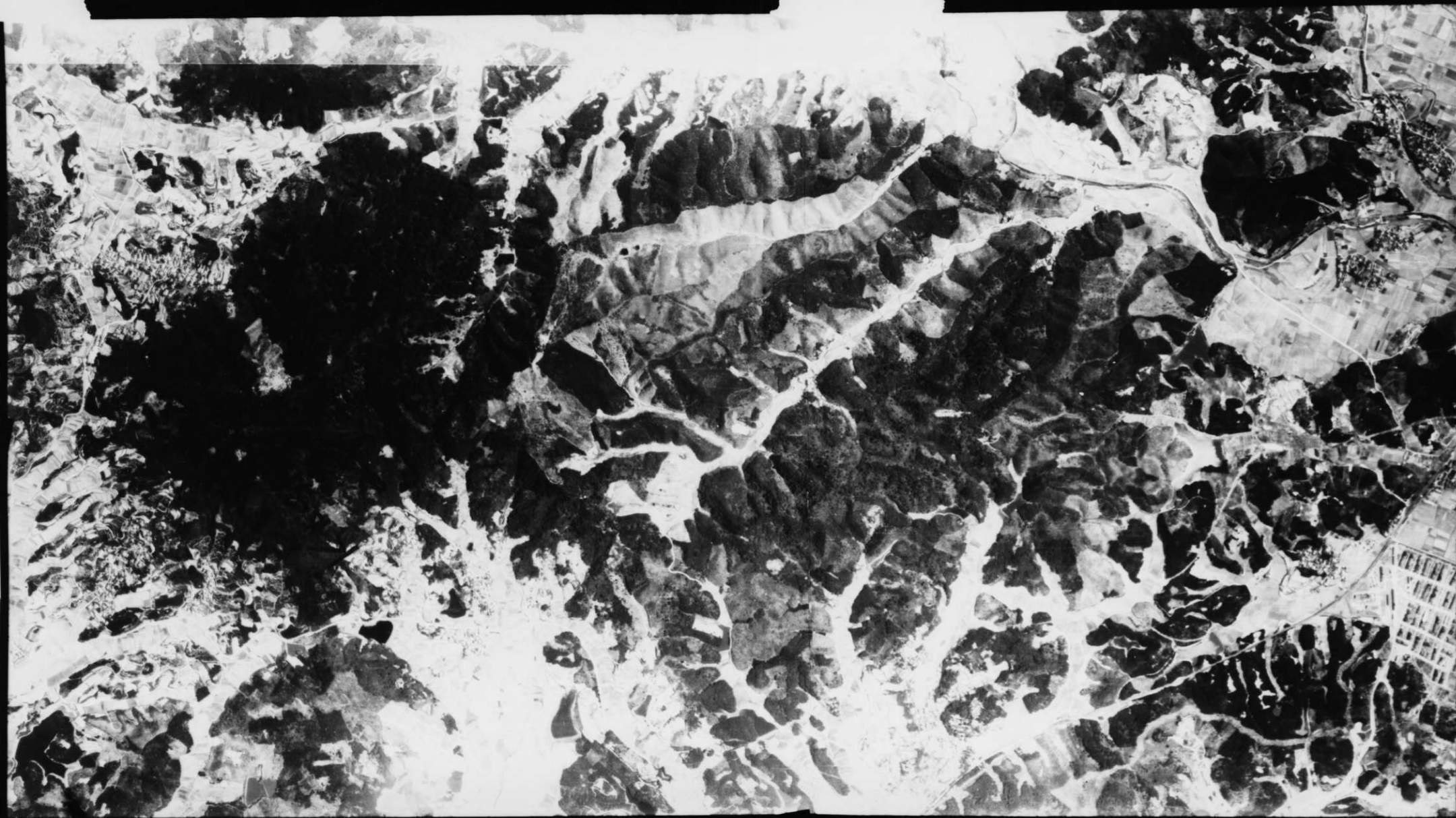
D. Because this plant is working for the Navy, all finished products go to SASEBO usually by train but at times by truck. The products from the WATANABE AIRCRAFT CO also go to SASEBO for the same reason.

E. A small percentage of incoming materials comes in by truck and is usually brought in by train.

1425739





















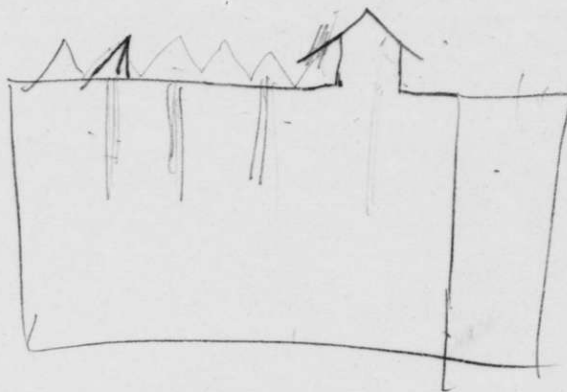


Kyushu Ordnance 1239

18 6.194

3 28.100

Λ Λ Λ Λ



Confy

24 July

Letter Draft

From: O in C, AIC

To: Op 16-1-Y

Subject: Target Information for Joint Target Group

Reference (a) AIC Conf. ltr to Op 16-1-Y, dated 23 July 45

Serial ~~TAR-~~ 231515 OF

Enclosure (A) Fig. 2 of AICPDWATI #4, advance copy

1. Enclosure (A) is forwarded ~~for information~~
~~of Joint Target Group~~ ^{by Joint Target Group} for possible use, in
assigning building numbers ^{target} to 90.35-1239,
Kyrushu Ordnance Plant.

Copy w. encl.: Jicpoa, Target Section





8-800-235-2359

DATE: 11/11/2001 11:11 AM

TRAINING SAFETY





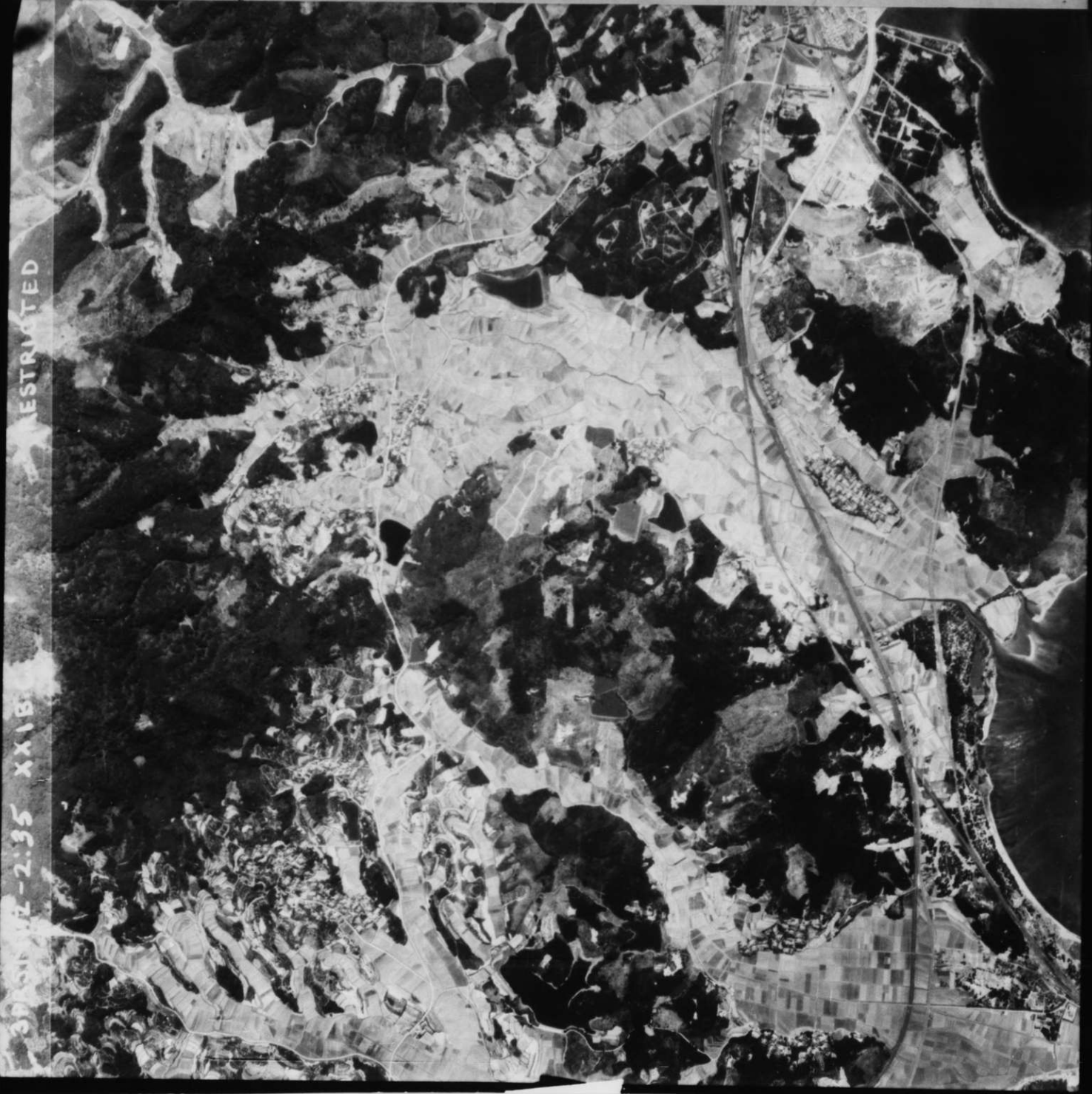
35 XXIB

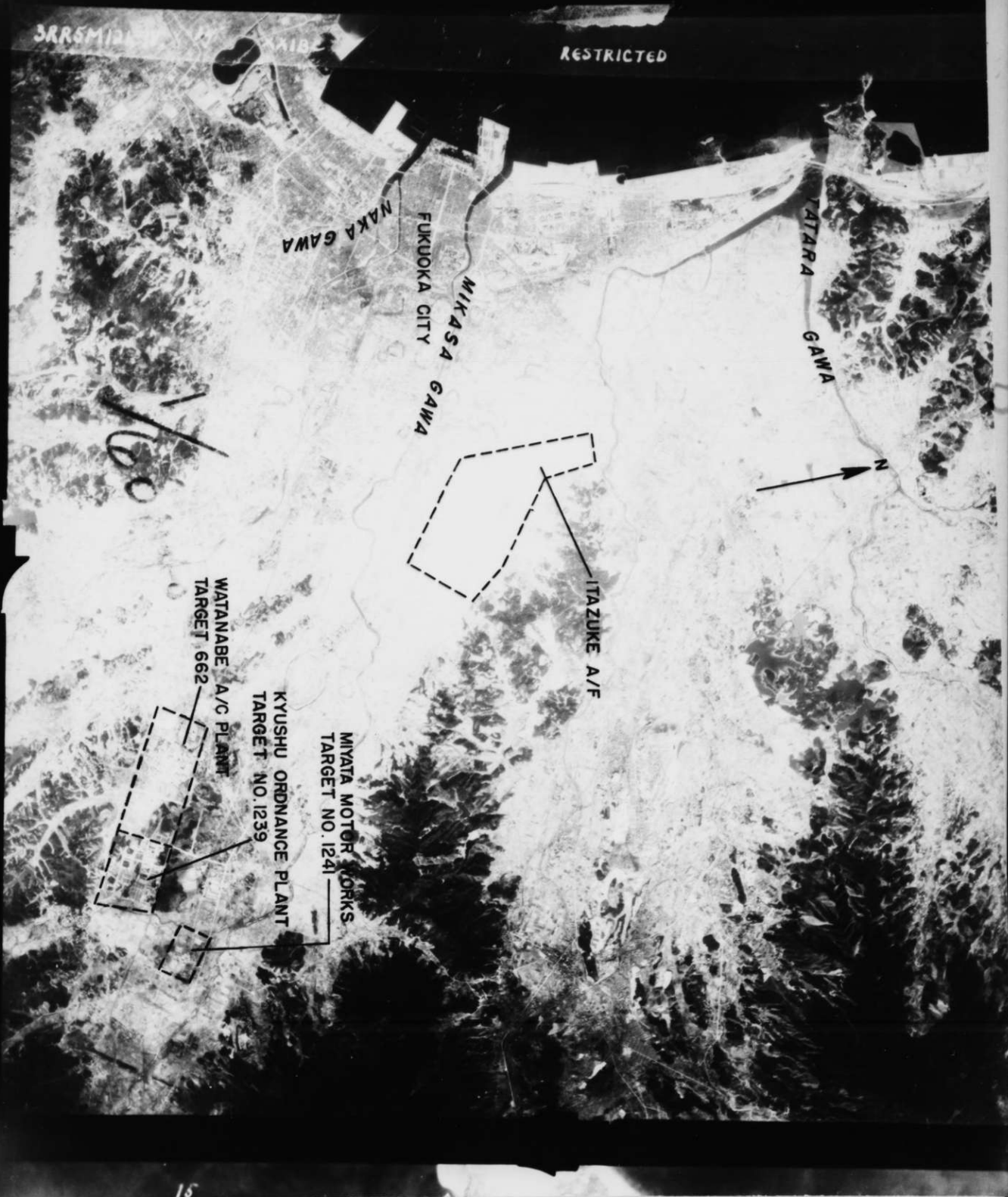
RESTRICTED



39-2-2:35 XX18

RESTRICTED





Japanese Aircraft Production

No. 10 15 July 45

Secret

			1 Jul 44	1 Jan	1 Jul 45
Shinden	SEF	Kyushu	0	3	3
				each month	
Joke	SER float	"	45	45	27

	J	F	M	A	M	J
Joke or successor	23	23	25	45	32	27

To OSCAR

Subject manufacturer of
AMAKAZE engine used
in "LORNA" (TOKAI) is
HITACHI

LORNA airframe assembly
done by KYUSHU

Note ① Kyushu firm also built
SLIM II the small submarine
born recon plane

② Following trainers also
indicated as built by
Kyushu

- a) Type 2/11 land primary
- b) Type 2/11 land intermediate
- c) Shiragebi/21 observation

Joe Winsky

LORNA

low perf

des. for mass prod.

low power

Amakaze engine ⁴⁸⁰ ~~74 x 80~~ hp

mfg probly Watanabe

Dec 44

never captured

sketch shows fixed landing gear

8 on Saeki airfield 4 May

XXI BC

TAIC Summary #17
b.7
Synthetic Power & Jp AF
Mach 30 3/11/44 no. 17

JAKE II = E13 A1-K
14 cyl 1045 hp

Kinsei 43 Mitsubishi

plane mfg by Watanabe

called trainer - some of use. but less than trainer.

TAIC Summary 23 Japanese Trainer AF

Spec. P.I. Report No. 33 13 May
Int 2

for Lorna

no dope on amakaze { write TAI
Jicpoa

Jakes^{at} Zasshonokuma

Lorna at Kashii land

but Jakes stopped <sup>don't know what would
make.</sup>
^{don't know when stopped}

Lorna known for long time

Paul by Aichi Kinsei 54 by Mitsubishi

Jake successor

Seiun ^{land} has:

Ha 42 mod 31^{which} might be
Mitsubishi because.

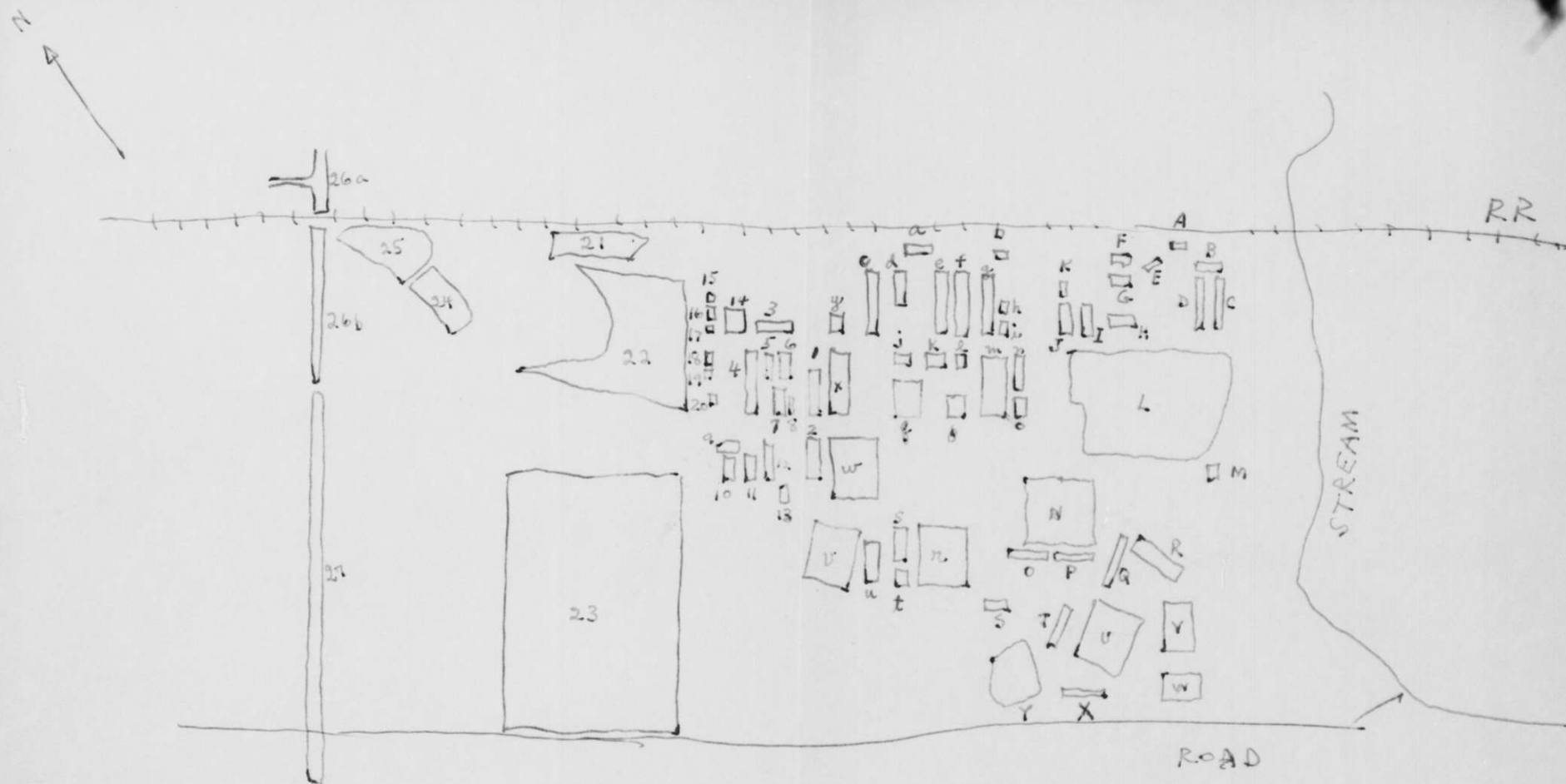
Ha 42 mod 11 is Mitsubishi

maybe Kyushu making Seiuns?
because is 2 ang see many like
Loma

Seiun

maybe dual atanta $V12 = W$
in Seiun aili atanta series

likely not by Kyushu



INTERR. BLOW UP OVERLAY

ORDNANCE

TARGET 90. -1239

KYUSHU ~~PLANT~~ PLANT

Kokura Arsenal

Kyushu Af

662

186.94 area

K-6-4 Cinepac ~

186.428 A

186.428

328.100 work sh

New AAF no name assignment
no. 8 p. 2

no. 2079 for Fukuoka
Seaplane Works

1239

Kyushu Ordnance Co

largest lathe ^{over} 22'

all lathes driven by single elec. motor

M 220 Int Rept 8 Sept 44

Map: Japanese Radar

Defense 1st AAFPOA
APO 234

1 July 45

no gl or 52 radar Fukuoka

Hakata Zashonokuma

App A Flak News Letter No. 2,

Flak & Radar Intell Memo No 4

1 July 45

Flak News Letter No. 21 14 July
info secret

90.35-1237

Fukuoka Seaplane Works

Correct name Kyushu Hikoki KK

Kyushu Airplane Co. Ltd, Kashii Plant

References: Kent file on targets 90.35-662, 1238, 1237
in Geog Sect

Japoa Daily POW reports 14 Jun 45;

XXI BC DA report 97 29 Jun 45

XXBC 38 Phase PI Rept 7 1 Mar 45 good

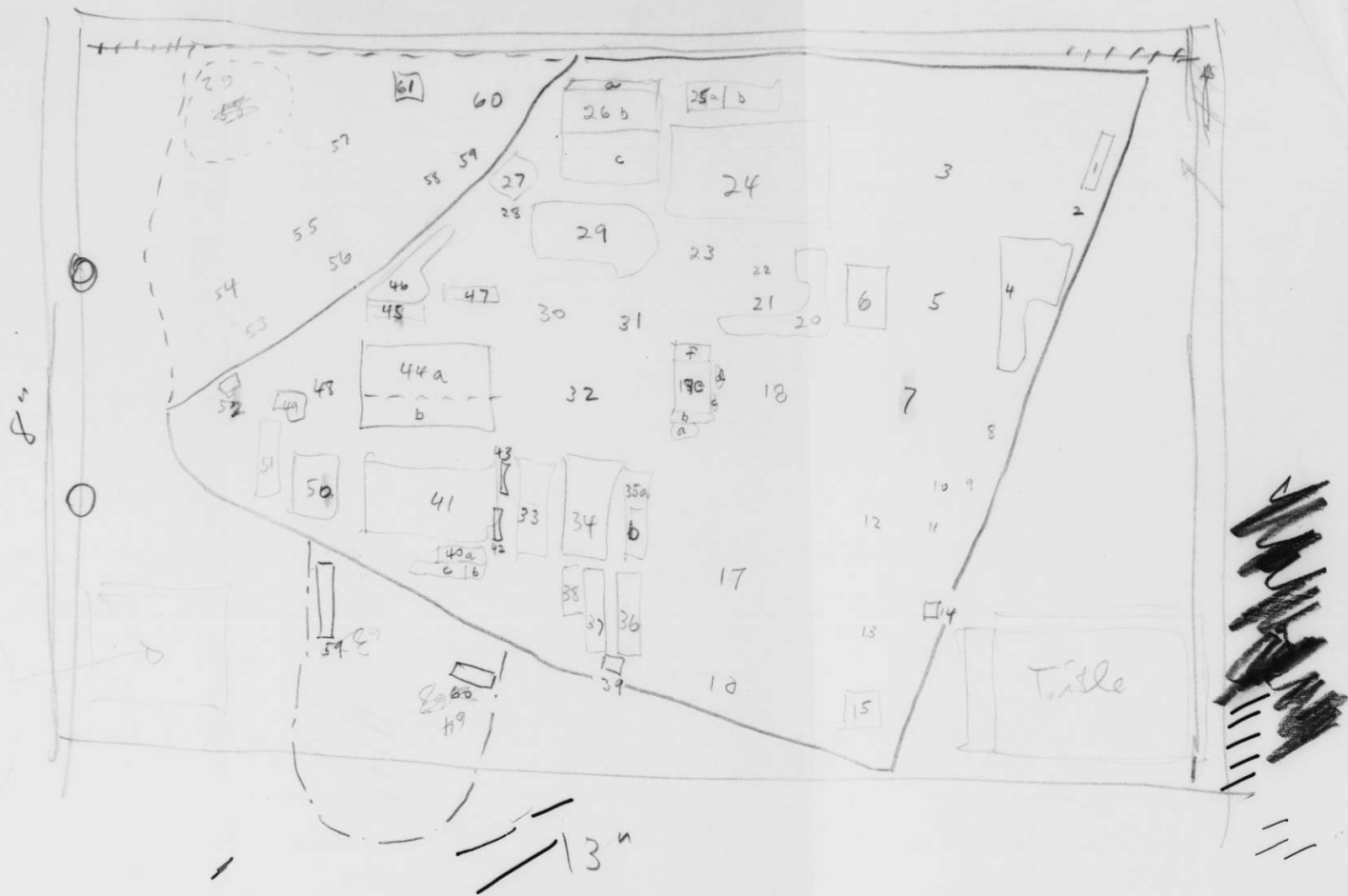
18th PI Det 14 AF 32 Phase PI Rept 107 28 Aug 44

ACAS 2st. PI Rept ~~7~~ 5-4 18 July 44

Interpion 2 Special PI Rept ~~7~~

old name Nagima Seaplane Base

- Main compound
- Training School
- Possible Expansion



90.35 - 1241

Miyata Factory Co
Motor Mfg Co

airplane parts landing gear 11/11/33
steam, diesel, internal combust eng for
small boats, motor vehicles 1 Oct 42

Kyushu Airplane Co.

Zashonokuma Plant

sub contractor

90,35 - 662

Kyushu Airplane Co. Zasshonokuma ^{Plant}

parts from

Steel?

SEIKOSHO

Steel Foundry

KATAKASU-MACHI

HIE-MACHI

Fukuoka Seiko Factory above Nishikatakasu

MATSUMURE TEKKOSHO (Iron Foundry) HIE-MACHI

Matsumura - N side of road SE of Fukuoka

see
6/21

Seiko Factory

Nishiyama - Miya ✓

Nippon Rubber Co. airplane tires

Duralumin, aluminum, magnesium alloy from

Japan Coal Mines Nippon Tanko

Sumitomo Metal Industries

Kobe Steel Works

Air Station

Wheeled planes tested at Gannosu Airfield = Fukuoka Naval

Seaplanes tested at Wajiro s/s Suiohikojo

not operational SS

all navy planes

ATIS #756 23 Jan 45 sketch

fuselages props parts assembly

change location 1936 govt decree AC mfg

Glen	9	per '14 of 44	To Dec 31 44
Jake	135	" " " "	180
Tokai	36	" " " "	1068
		last '12 44	12

Jap AC Makers Plates & Markings #60

23 Jan 45 MID

E 13A1

STG said 40 Jakes Dec 44, & Jan 45

Kirsei 43/44 engine

of Hitachi Tachikawa 9017-2009

AMIS L772 4147-I
(2)

1945

SR 74

DA 97

90.35

1238 -

Watanabe Iron Works

all site abandoned by mar 58

ATIS

SWPAC #

756

23 Jan 45

sketch

90.35 - 1265

Nippon Rubber Co. Fukuoka Plant

tires

SR 74

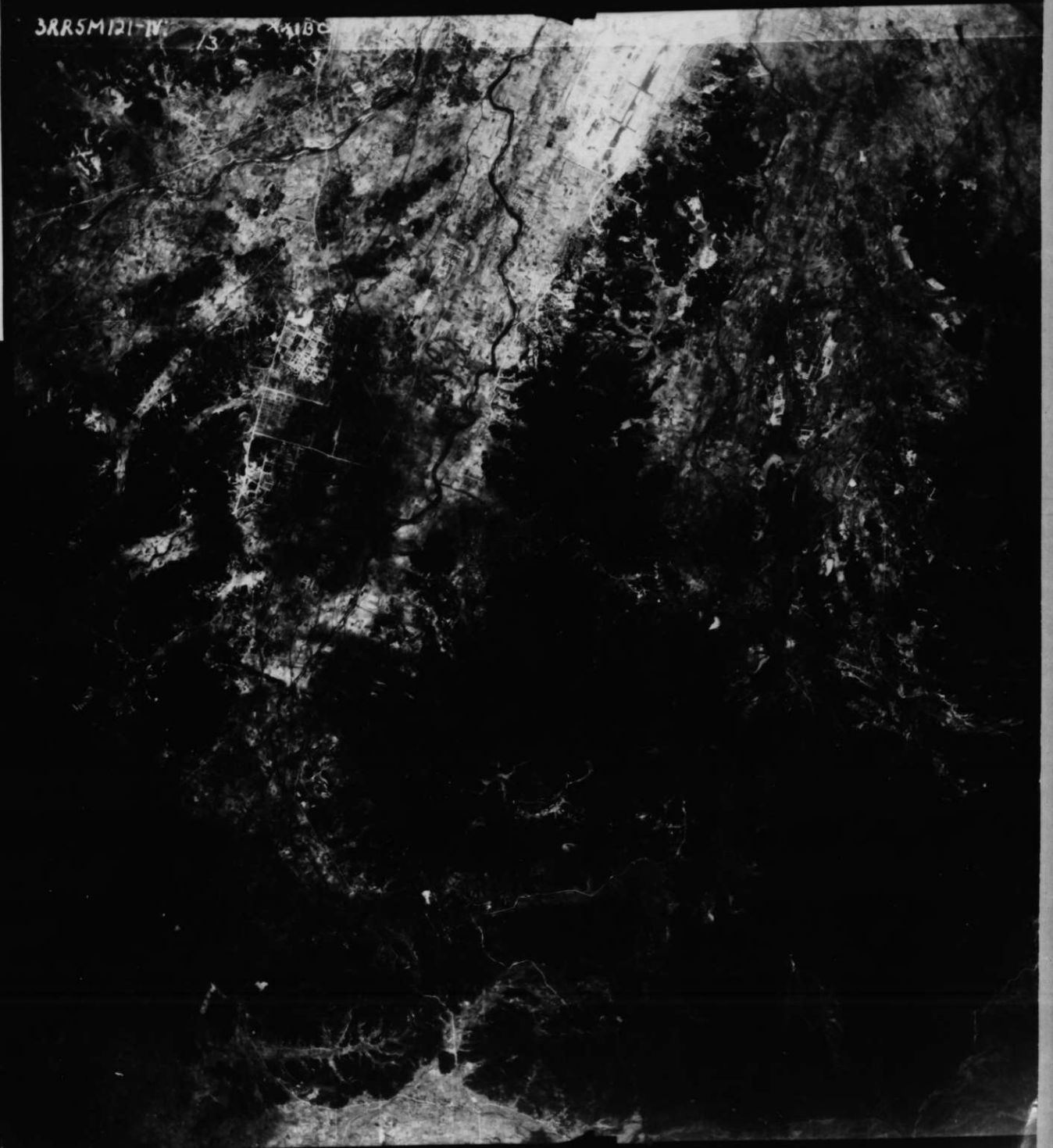
9 apr 45 photo

DA 97

3RR5M121-IV

73

X118C



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05

Target 90.35-1239 Kyushu Ordnance Plant, Zasshonokuma

Japanese Air Target System: Armament

References: (a) Jicpoa Daily Report of Target Information from
POW Interrogation, 18 June 1945.

(b) AOF 90.35, 1 July 1944

(c) Survey Report No. 74, C.I.U. XI Bomber Command,
9 April 1945

(d) Interpron Two ~~8x8~~ photo 186.428A, 90.35
briefing enlargement 328.100, Kyushu A/C Plant
90.36-662

(e) Interpron Two 8x8 photo 186.428A, Kyushu A/C Plant
90.36-662

(f) ~~(f)~~ Interpron Two 8x8 photo 186.382A, Sasebo Naval
Arsenal and Engineering Dept, 90.36-758

(h) ~~(h)~~ Interpron Two 8x8 photo 186.269 Kawatana Factory of
Sasebo Arsenal, 90.36-2021

(i) ~~(i)~~ Interpron Two 8x8 photo 186.279 Kawatana Factory
of Sasebo Arsenal, 90.36-2021

over (j) ~~(j)~~ ONI Weekly, Vol. IV, No. 21, May 23, 1945, p 1721-1722

(m) ~~(m)~~ Joint Target Group Sheet No. ATSE/A, page no. 17, 10 Feb 45

~~(n) ~~(n)~~ Sasebo Naval Base, 70-45 Sasebo Naval Base, July 1945~~

(g) ~~(g)~~ Cincpac-Cingpoa Bulletin No. 188-45, Special Study Sasebo
Naval Base, 20 July 45,

(over)

POW Source

(K) ~~(L)~~ Cincpac - Cincpac Bulletin No. 55-45, Japanese Infantry
Weapons, 15 Mar 45

(L) ~~(K)~~ Cincpac - Cincpac Bulletin No. 92-45, Japanese
Anti-aircraft Materiel, 11 Apr 45

Outline

1. Source of Information
2. Target Name
3. Target Location
4. Target Boundary
5. General Functional Analysis
6. Economic Assessment
7. Detailed Functional Analysis
8. Structural Analysis
9. Machinery Layouts
10. Dispersion
11. Underground Relocation

1. Source of Information

POW assembled parts for the breech of ~~the~~ a
(and later worked on an AA sound locator) (number 17)
10 cm. naval gun, in the gun assembly building, of this
target, ~~He is for~~ ^{a period of} approximately one year,

beginning about ~~from~~ June 1943 ^{and ending about} June 1944. He is

considered of average reliability.

2. Target Name.

POW states that the name of this target is Kyushu Heiki KK, or Kyushu Ordnance Co., Ltd. This ~~is~~ corroborated ^{by} the statement of ~~another~~ ^{another} POW, interrogated recently by ~~Lin~~ Jicpoa, ~~and~~ reported in reference (a). The name has been in use since October 1943, or, according to reference (a), since November 1943. Prior to the change, the name was KK Watanabe Tekko Sho, Heiku Bu, or Watanabe Iron Works, Ltd., Ordnance Section. It is not known how long the latter name was used, or when this plant was built.

✓ Watanabe Iron Works also had an Aircraft ^{now known as Kyushu Hikoki KK,} Division, ~~Target~~ 90.35-662. For a history of changes in name of ~~this~~ ^{that} target, see reference (a). Both the aircraft and the ordnance plants are under the control of one man, Watanabe, despite their separate corporate existences.

POW believes that the original Watanabe Iron Works, Plant no. 1, in ~~Fukuoka is no longer~~ target 90.35-1238, in Fukuoka is no longer operational, but ~~states that this is only hearsay~~ is being used as barracks. POW states, however, that this is hearsay.

3. Target Location

The first map plot of the location of ~~the~~ Kyushu Ordnance Co. ~~was made~~ known to AIC was made in reference (b), of which a portion of map number 4 is reproduced herewith as Fig. 1. When the first six-inch photo cover of the area was obtained ~~by 281 Bom Command~~, the C.I.U. of the ~~281~~ Bomber Command reported in ~~the~~ reference (c) that the location given in reference (b) was confirmed, and selected as the target a plant lying 2600 feet southeast of the aircraft plant. This was done presumably in conformity with the text on page 57 of reference (b) which stated that target 1239 was .2 miles east of target 662.

In conformity with reference (c), Interfrom ^{a briefing enlargement, reference (d),} ~~Two issued, then it was target material~~ showing the ordnance plant southeast of the aircraft plant.

POW ~~it~~ indicates, however, that the Kyushu Ordnance Co. is adjacent to and directly ~~west~~ of northwest of ~~the~~ the aircraft plant, while the factory to the southeast is a branch of the Kokura Arsenal. Both of these identifications corroborate similar reports given in reference (a).

The newly verified location of the ~~ordnance~~

Kyushu Ordnance Co. was included as part ~~as~~ of the aircraft plant in reference (c), and was marked "P-568 unidentified industry" in ~~initial~~ Interpron Two material, references (d) and ~~(c)~~ (c).

Target locations as now established are shown in Fig. 2.

4. Target Boundary

Fig. 3 shows the plant boundaries and division of the plant into three areas:

- a. Principal plant compound
- b. ~~Public school and plant~~
Training school area
- c. Probable barracks area

POW is not certain of the outer boundaries of the the last two areas.

No information could be obtained on outside utilities serving the target, except transportation facilities. Incoming materials usually arrive by rail over the Kyushu Main Line RR. adjacent to the plant on the northeast; a small percentage arrives by truck. Outgoing materials are shipped ^{on} ~~in~~ the same ~~facilities~~ ^{in similar} proportions.

5. General Functional Analysis.

The Kyushu Ordnance Co., ^{appears to be} ~~is~~, in effect, a branch factory of ^{the} Sasebo ^{Naval} Arsenal. POW stated that the plant works for the Navy and that all products go to Sasebo. It is logical to assume that most if not all of the plant's ~~official~~ business ~~is~~ dealings are ~~with it~~ conducted with the Sasebo Naval Arsenal and Engineering Department, ^{as shown in references (f) and (g)}. However, target 90.36-758, ^{there might} ~~may~~ be some connection with the Kawatana Factory of Sasebo Arsenal, target 90.36-2021, ^{and (h)} shown in references (g), ^h which is reported to produce aerial torpedoes. These speculations were

not advanced by the prisoners, for he ~~was~~ is totally unfamiliar with Sasebo and knew only that plant products were shipped to Sasebo.

The products of Kyushu Ordnance Co. during the period June 1943 - June 1944 were depth charges, ^{and torpedo tubes,} torpedoes, 10 cm. ^{dual purpose} naval guns (except ^{the gun} ~~for~~ barrels), and 25 mm ^{naval} ~~machine~~ machine ~~gun~~ cannon.

6. Economic Assessment

a. Products

1) Depth Charges. These were simple cylinders,

one and one-half to two feet in diameter and

two and one half to three feet in length. Raw

material ^{was} ~~in~~ sheet iron shipped in from the outside. Fuses

~~was~~ ^{were} also shipped in. ~~When questioned~~ POW had heard that

loading with powder was done here, but he had never seen

where it was done. Since photo cover reveals ~~a~~ a lack of

retirements and very close spacing of buildings, presence

of powder at this plant seems doubtful. ~~From~~

^{of depth charges}

Mark and model numbers ^{of depth charges} could not be determined.

2) Torpedoes. Torpedoes were for ^{surface craft} ~~ships~~

use, to best of POW's knowledge. However, his

~~description of~~ ~~the~~ Doubt is cast ^{information} upon this ~~of~~

by the fact that torpedo ^{tubes} ~~mounts~~ made here appear to

have been ~~to~~ for submarines. POW did not know diameter or

mark and model number. He saw all three ^{sections} ~~parts~~

(warhead, air flask section, and afterbody and tail section) at

the plant, ~~to~~ ~~as~~ as separate sections, and as

~~assembled~~ torpedoes. Air flask sections and afterbody }
and tail sections were manufactured here for certain; he

warhead manufacture he is not certain about.

^{did} ~~he~~ not know whether warheads were manufactured

here or not. He did not know whether ^{torpedoes} ~~they~~ were

all driven by compressed air. He had never heard of electric motors going into torpedoes. The electric motors reported in Building 23 were not for use in torpedoes as they were too big. POW had heard of Kawatana as a ~~tower~~ ~~but not as a factory or a torpedo factory.~~

3) 10 cm ^(Dual Purpose) Naval Gun. It is ^{believed certain that} (These guns

were naval guns, because they were all shipped to Sasebo Arsenal and, to best of POW's knowledge, were intended for use aboard DDs. They were dual purpose guns, because they were capable of horizontal fire as well as normal AA fire. POW thought they could be used on land, if the output

were no longer needed for ships. When asked if this was a newly developed type of gun, POW said it was the newest.

A check with Mobile Explosives Investigation Unit #4 revealed that the Japs have ~~a~~ two versions of a 10 cm naval dual purpose gun, the Type 98 10 cm 50 calibre (1938) and the Type 98 10 cm 65 calibre. At least one of the versions can be shore mounted, as a unit was found on Saipan, minus nameplates. According to MEIU #4, the Type 98 10 cm naval DP is comparatively new but is not particularly more important than other

AA guns, of which the army 90 mm AA has caused the most trouble.

The preceding evaluation does not seem to rule out the possibility that the Type 98 10cm naval DP is a weapon of high importance in Jap naval AA defense.

Barrels and barbettes of the guns were made at Sasebo and shipped to the plant for assembly.

There were some periods when Kyushu Ordnance Co made the barbettes. All other parts, such as breech mechanism, gun shield and locating devices, were made at Kyushu Ordnance.

Locating devices associated with the gun appear to

have been sound locators. POW could not identify the type, but when shown a picture of the Type 90 aerial Sound Locator ^{from} Reference (j), ~~page~~ photographic section and page 1725, he declared ~~it~~ ^{his} was different from the Type 90. The sound

locator manufactured by Kyushu Ordnance Co. included four horns, ~~set~~ in a single horizontal line ~~and~~ in pairs, ~~found with~~ ^{being set} two horns, on each side of the central pedestal.

POW stated he had never heard of associated devices mentioned in reference (j), such as Type 99 interlocking device to connect sound locator and searchlight, Type 96 Model 1 150 cm searchlight, Type 2 Mark 1 range finder, ^{or} ~~and~~ Type 2 elevation transmitters. He said the sound locator was not designed to operate with the searchlight.

4) ^{Naval} 25 mm ^{Machine Cannon} ~~Machine gun~~ Automatic Weapon

This ^{cannon} ~~gun~~ was for ship use, POW thought, and was a single barrel mount. All parts for the ^{cannon} ~~gun~~ were made in this plant.

A check of documents reveals that there is only one ~~gap~~ 25 mm ~~auto~~ weapon, which is therefore

presumed to be that manufactured here. Reference (f) identifies ^(with illustrations) ~~it as~~ ^{the} Type 96 25 mm automatic cannon, and says it "is ~~this~~

essentially an anti aircraft weapon but may fire anti-tank missions. ~~It~~ has been found on fixed and mobile single mounts and on fixed twin and triple mounts.

It has a high muzzle velocity, variously given as 2700-2900

feet per second. This document rates it as "apparently the basic automatic AA weapon of Japanese Naval Units".

Reference (k) identifies the 25 mm as the Type 96 (1936) 25 mm Automatic Weapon, and states that it ~~is~~ "is widely used ^{both on} ~~on both~~ ships and in shore installations --- is a very effective weapon --- has been found in increasing quantities in the Pacific Area and is the most formidable weapon the enemy has to combat low-flying aircraft".

The last statement is of particular interest with respect to naval carrier aircraft.

5) Torpedo tubes. Tubes were manufactured here and assembled into ~~banks~~ mounts of six tubes each, ~~four~~ ranged three each in two rows.

POW thought this arrangement was two horizontal banks of three each, rather than three horizontal banks of two each. The former arrangement would be a shipborne mount of a type apparently not mentioned in documents available at AIC.

The latter arrangement would be typical for several types of Jap submarine. It appears likely that these tubes were for submarine use, in spite of POW's statement. Since it is presumed

that the torpedoes and tubes were designed for use together, it also appears likely that the torpedoes were for submarine use.

D. Percent of Effort Devoted to Each Product.

POW could make no estimate.

E. Percent of Floor Space Devoted to Each Product

POW gave no direct information on this topic.

The following is based on aerial ~~photos~~ and photography (Fig. 3) and the detailed functional analysis given by the POW.

b. Division of Effort among Products

POW could not establish ~~as estimate~~ any comparative expression of the effort devoted to each product, ~~except~~ other than to rank them in the order given above.

~~c. Division of Floor Space Among Products~~

A rough analysis of floor space devoted to the various products shows that ~~the~~ much the largest area is allocated to torpedos manufacture, with 10 cm guns second, ~~depth charges~~ torpedo tubes and mounts third, and ~~10 cm~~ depth charges and ^{machine cannon} 25 mm ~~automatic weapon~~ ~~machine guns~~ tied for last. The following table shows the approximate figures:

Torpedo manufacture 238 000 sq. ft.

10 cm gun mfg & assembly 97 000 "

Torpedo tubes mounts
~~Depth charge mfg~~ 64 000 "

Depth charges 38 000 "

Machine cannon
~~Automatic weapons~~
~~Machine guns~~ 36 000 "

These figures were arrived at by considering only major shop buildings, by arbitrarily allocating two-thirds of building 32 to ~~main~~ depth charges and one third to gun shields and two-thirds of building 17 to 10 cm guns and one third to ^{machine cannon} ~~automatic weapons~~ ~~machine guns~~, and by ^{entirely} omitting the wrought iron and casting shops, buildings 26 and 29, ~~entirely~~. The ~~detailed~~ table, ~~giving~~ ~~of very rough~~ building dimensions, follows:

d. Rates of Production.

POW either could or would not make any estimates of production rates, even for the breech mechanisms and locating devices on which he worked.

A rough guess at production of 10 cm guns, based on the existence of four gun assembly pits, might be four to ten guns per month.

c. 4. ~~Relative Importance of Products.~~ Relative Importance of Products.

POW had difficulty trying to estimate relative importance of the various products to Japan's war effort. Finally, and ~~using~~ apparently using units of product as a criterion, he rated the products in this order:

depth charges, torpedoes, 10 cm guns, 25 mm ^{machine} ~~automatic~~ ^{cannon} ~~weapons~~, torpedo tubes and mounts.

Any estimate by AIC of possible relative importance of products as of August 1945 would be conditioned by the two following factors. Japan is known to be striving desperately to ^{maintain or} increase aircraft production in the face of bombing attacks and dispersal

programs. Also Japan knows its Navy is

almost non-existent, and the ^{overall} need for shipborne

AA guns has diminished. If these guns are ^{now} built

for land use, however, they are as important as ever.

A possible rating of products follows:

10 ^{naval} cm DP guns, land based

25 mm ^{AA and AT} naval machine cannon, land based

Torpedoes, if for submarines

Torpedo tubes and mounts, if for submarines

Aircraft parts

Depth charges

Depending upon ~~possible~~ the amount of possible recent

expansion of aircraft parts manufacture reported ^{to} ~~in~~

~~June 1944~~ ^{engaged in} ~~action~~ on a small scale in June 1944,

aircraft parts might ^{stand higher} ~~now come first~~ on the
above list.

f. Number of Employees.

POW felt incompetent to estimate number of
employees but finally guessed 5000 to 6000. He
stated that the ~~entire~~ entire plant works twenty four
hours, that there are two main shifts, ^{and} that
changes of shift come at different times in the
various departments.

g. Relations with Subcontractors.

The only information obtained was that fuzes for depth charges were obtained from the outside, and that ^{some} ~~various~~ parts ^(for the products) came from small factories, names unknown, in Fukuoka City.

h. Relations with Suppliers of Material.

Sheet iron for depth charges, ~~and~~ sheet ^(and metal stock for gun shields and breech mechanisms) steel for torpedoes, were supplied from Yawata, presumably Japan Steel Co., Yawata Plant, target 90.34-28, or its Tobata Branch, target 90.34-29. 10 cm gun barrels and most of the barbettes were supplied by Sasebo

Base
Naval ~~arsenal~~, presumably the Sasebo
~~NA~~
Naval Arsenal and Engineering Department,
target 90.36-758, Naval Gun Factory, building
group 63 ~~as~~ as annotated on page 4 of
reference ~~the~~ (g).

i. Relations with Prime Contractors.

Nearly all products of the plant were shipped to
Sasebo Naval Base; making it ^(for practical purposes) the only prime
contractor. ^{However,} to the extent that aircraft parts
were made, they were sent across the street
to Kyushu Aircraft Co., Zasshonokuma Plant,
target 90.35-662.

j. Economic Position of Target within
the Industry.

It is difficult to attempt to estimate the
position of this plant in the Japanese ~~air~~

Armament Air Target System, due to the
general lack of information concerning locations

and rates of production of specific items of

armament. In addition, this plant is

~~not~~ not mentioned ~~in~~ in Joint Target Groups

Armament ~~Folder~~ Air Target System Folder.

④

JTG makes no specific mention of
10 cm DP naval guns, ~~or~~ 25 mm. ^{machine} ~~automatic~~
^(or depth charges)
cannon ~~or~~ of their manufacturers. No
information from other sources is ^{readily} available
at AIC regarding other manufacturers of
these weapons. This target is considered to be
of importance because of its production of
~~of high quality~~ high performance intermediate
and heavy ^{AA weapons} ~~flak~~, regardless of its other
products and regardless of other producers
of the same ^{AA} ~~flak~~ weapons.

(m)

in reference (S),

Joint Target Group, ranks locations of torpedo manufacture in the following order: Kure, Yokosuka, Sasebo, Maizuru, Mitsubishi Steel and Arms.

Aicponati #2 suggested that torpedo manufacture was only a small part of activity at the Yokosuka Arsenal and Armament Works. If the Kyushu

Ordnance Co and the Kawatana Factory of Sasebo

Arsenal are both included as part of Sasebo,

~~probably~~ ~~for~~ Sasebo should rank ahead of Yokosuka.

However, Kawatana is some nine miles from

Sasebo and Kyushu Ordnance Co. is some

fifty miles from Sasebo, so there is some

justification for ranking these as separate

targets. ~~Extremely rough figures, one~~

~~might compare these three large torpedo manufacturing~~

~~areas as follows:~~

~~Floor Space in Major Shops Devoted to~~

~~Torpedo Manufacture~~

~~Rough Figure~~

~~90.36-2021 Kawatana Factory of Sasebo Arsenal 500 000 sq ft~~

~~Source: reference (h)~~

~~90.35-1239 Kyushu Ordnance Co., Zasshonokuma 240 000 "~~

~~90.12-282 Yokosuka Arsenal + Armament Works 40 000 "~~

~~Source: AICPOWATI #2
at AIC~~

~~The latest available information on torpedo~~

manufacture at Sasebo itself is contained

(reference (l), pages 4, ~~and 5~~, and in)

in reference (t), page 21 and chart A,
(h)

in reference (g), pages 4 and 5.

(no P)

Reference (g) indicates that ~~roughly~~ ~~about~~ 140,000

~~square feet of roof area (number of stores unknown)~~,
torpedoes are made

~~but probably one~~ are available in the Torpedo Factory,
(building group 64, ~~on page 4~~)
of the Sasebo Naval Arsenal and Engineering Department,

target 90.36-758,
(~~building group 64 on page 4~~), and ~~roughly~~

~~225,000 square feet of roof area are available~~

in ~~the~~ a "probable torpedo factory" immediately

north of Sasebo airfield, Target 90.36-754,

~~These two sites total~~

Using extremely rough figures,

one might compare these ^{five} ~~four~~ torpedos

manufacturing ^{centers} ~~as~~ as follows:

Floor Space in Major Shops Devoted to Torpedo Manufacture

Target No.	Target Name	Source	area in Sq. ft
90.36-2021	Kawatana Factory, Sasebo Arsenal	ref (i) (f)	500 000 roof
90.35-1239	Kyushu Ordnance Co., Zasshonokuma	Fig. 3	240 000 floor
none	Probable Torpedo Factory, N. of Sasebo airfield	ref (g)	225 000 roof
90.36-758, Bldg group 64	S Torpedo Factory, Sasebo Naval Arsenal and Engineering Dept.	ref (g)	140 000 roof
90.17-282	Yokosuka Arsenal + Armament Works	AKPOWATI #2	40 000 floor

Comparison with areas available at Kure,

Mazda and Mitsubishi Steel and Arms is

not attempted in this report, nor is any breakdown
with respect to type of torpedo.

B. Detailed Functional Analysis

The following information on uses of specific
in June 1944
buildings, relates to building numbers shown in

Fig. 3

- 1 Temple for factory workers
- 2 Unidentified by POW; possibly a guard shack
- 3 Torpedo parts machine shop. This
contains rows of machine tools running the
length of the building. ~~and~~ Many of the machines
are lathes.
- 4 Office
- 5 Compressed air machines

6 Building now removed ; was a cafeteria

in June 1944

7 Torpedo parts machine shop, similar to 3

8 Unidentified

9 Guard hut

10 Time card punch office

11 Outdoor roofless bicycle stand

12 Torpedo assembly building. Contains only small

machines such as drills. POW had heard that

some A/C parts for Kiyoshu Aircraft Co., Zasshoukuma *

Plant, 90.36-662, across the street, ^{were also} ~~are~~ made here.

13 Torpedo assembly building

14 Unidentified by POW; possibly a guard shack

15 Compressed air building. Photos indicate sizable stack. No details.

16 Unidentified

17 10 cm gun and 25 mm ^{machine cannon} ~~machine gun~~ parts

manufacture and assembly. All parts of the

10 cm gun except the barrel and barbette are made

here. Building contains three craneways, each with

one travelling crane. Craneways are adjoining and

occupy the center of the building, running NE-SW.

Set in the floor beneath the central crane are

four concrete pits. In the center of each pit is

a turntable which supports the 10 cm gun during the assembly process. Layout of cranes, pits and types of machine tools ~~is~~ shown in Fig. 4

18 Torpedo assembly building. Contains only small machines, such as drills

19 a, b, c, d, e, f Individual buildings are unknown to POW, but electric ~~re~~ repairs building and coppers shop are among them

20 Torpedo experimentation

21 Torpedo experimentation pool

22 Unidentified

23 Some kind of motor shop. POW cannot describe
motors. Not for electric torpedoes.

24 Torpedo tube shop

25a Unidentified

25b Outdoor yard; contents unidentified

26a, b, c Wrought iron shops. POW stated this
building had some ~~stacks~~ about 20 meters high
in June 1944; they do not appear in photos.

27 Unidentified; large stack shown on Fig. 4 appears
to be connected,

28 Unidentified

29 Casting shop

30 Office

31 Woodwork shop

32 Depth charge drum ^{manufacture?} construction; also all heavy metal work, such as forming (?) of 10 cm gun shield.

33 Lunch house

34 Building now removed; in June 1944 was a storeroom, contents unknown.

35 a Office

35 b Storeroom, contents unknown

36 Restrooms for workers

37 Unidentified; constructed after June 1944

38 same as 37

39 Miscellaneous shop

40 a, b, c Unidentified

41 Storeroom for nuts, bolts, small parts

42 Unidentified

4

43 Head

4

44 a Depth charge assembly shop

44 b ~~same~~ Building now removed; in June 1944 was
same as 44a

45 Unidentified

46

"

47

"

48 Time card office and punching

- 49 Outdoor, roofless bicycle stand
- 50 Storeroom, contents unknown
- 51 Unidentified
- 52 Unidentified
- 53-62 Public school and training school area
- 53-59 ^{P.H.C.} School for factory workers ^{and} ² their children,
~~room~~
established by the plant. Usual public school
curriculum.
- 60 Training school for factory work
- 61 Unidentified
- 62 POW stated that there were some stacks here
in June 1944; none appear in photos.

63-64 Largest buildings in an area where POW

said plant expansion of some sort had probably
on land he knew was controlled by the company
taken place; buildings are possibly barracks.

Unnumbered The office of the ^{head of} ~~both~~ ~~of~~ both this plant

and the adjacent A/C factory was in a building

in the A/C factory.

8. Structural Analysis

POW based the following statements on his observations of building 17 in which he worked. He stated that he had never noticed carefully, but he believed ~~the~~ that the remaining buildings with the exception of some of the smaller ones were constructed in the same fashion.

Buildings ^{17 has} ~~has~~ continuous steel framing using H or I section columns and ^{built-up} ~~open~~ roof trusses.

~~Panel~~ Exterior panel walls ^{are} ~~are~~ non-load-bearing,

6"-8" of brick surfaced, ^{both sides} with concrete, rising ^{approximately} ~~the~~ one half the height ^{to} ~~of~~ the eaves, with fenestration above.

Floors are generally concrete, although in parts of a few buildings they are wood. Roofs are made of "BENRI KAWARA", which literally translated means "handy tile". From what POW says

this appears to be some pre-fabricated ^{concrete} ~~slate~~ tile which is ^{possibly} ~~probably~~ ^{1 1/2"} thick.

~~POW said he thought it was a little thicker than~~
~~the roofing.~~ The only foundation details known

are that columns have ^{steel} knee bracing at the floor.

Buildings are generally single story, although some are higher than others. Columns in the lighter structures and usually in the lower structures are wood.

Factory doors are wood with lights in upper portion,
horizontally sliding, size about 10' x 9'. Building 17
has two ~~or~~ metal overhead sliding doors, one at
each end of the central crane way, obviously for passage of
the 10 cm guns.

No structural protection for vital
machinery and equipment had been installed by June
1944, so far as POW knew. Maximum thickness of
internal subdivision walls was one thin panel of wood,
while machines had no special protection except
safety devices and dust covers. Removal of
Building 44b since June 1944 may indicate protection
of ^{some} machinery by dispersion.

9. Machinery Layouts

The only diagrammatic information on location of vital machinery and equipment which could be furnished by POW is shown in Fig. 4, ^{a generalized} floor plan ~~representing~~ layout of building 17, ~~Fig. 4~~

10.

10. Dispersion

Buildings 6, cafeteria, 34 - storehouse, and 44b - depth charge assembly shop have been removed since June 1944. There is no direct evidence to indicate whether the motive for removal was desire to lessen fire hazard or desire to protect contents by

dispersion. Similar removal seems to have occurred between photo covers of the two Kyushu Aircraft Co plants at Zashindama and Fashii. Since the aircraft plants are ~~owned~~ under common ownership with the Ordnance plant, there is some likelihood that a common dispersal policy may be applied to both types of plant, provided the importance of the product justifies it.

11.
9. Underground Relocation

There is no ~~off~~ evidence of underground relocation provided by POW or photos of the plant. There does appear to be underground activity in the hills to the north and northeast.

1~~st~~ August 1945

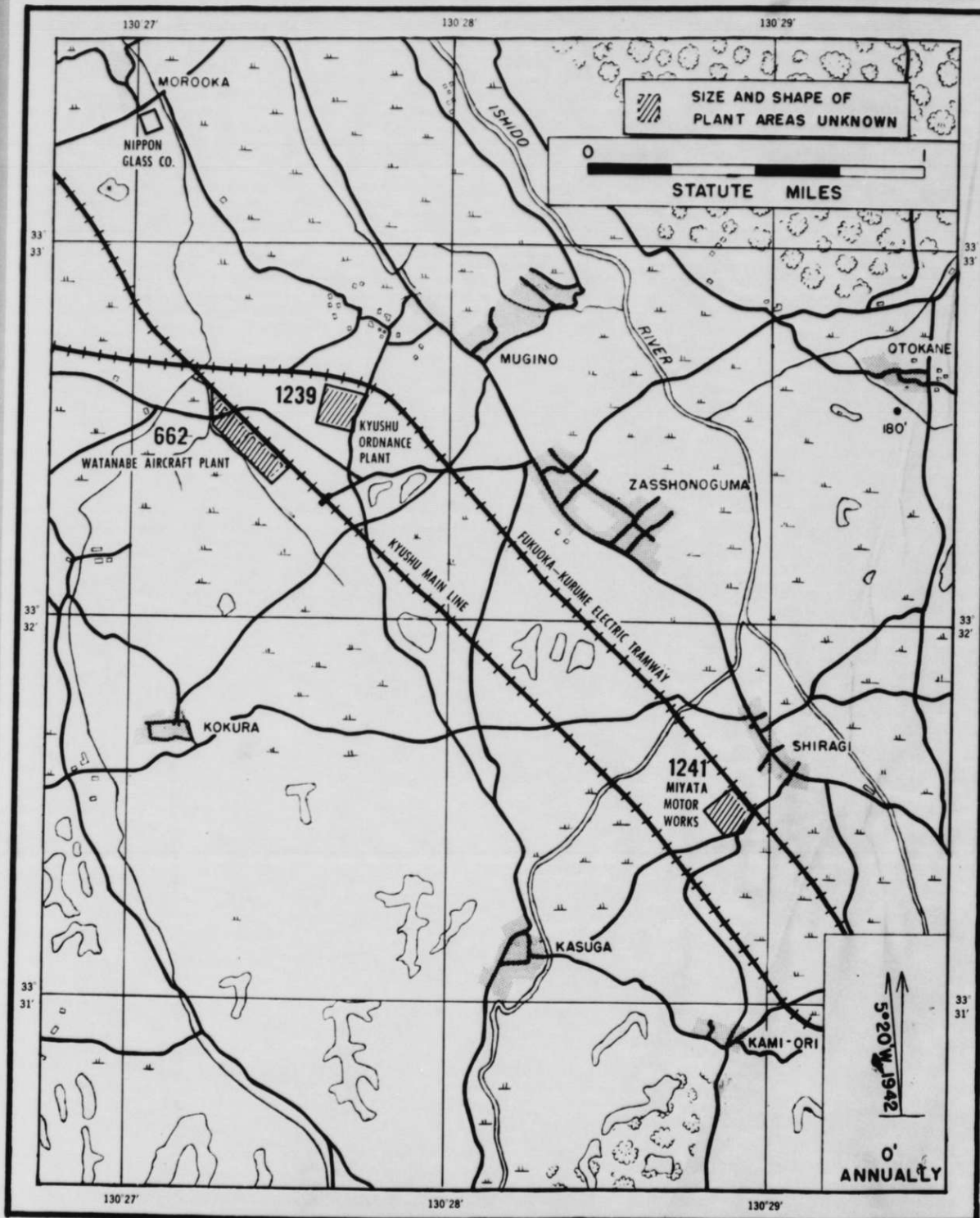
POW: TAGAWA, Kijiro

Interrogator: Lt.(j.g.) John Clark, USNR

Target Analyst: Lt.(j.g.) Oscar Sutermeister, USNR

MEIU #4 Consultant: Lt. Robert Weeks, USNR

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ZASSHONOGUMA REGION

ELEVATIONS IN FEET

RAILROADS
ROADS

ADAPTED FROM JAPANESE NAVAL AIR CHART 1941
JAPANESE IMPERIAL LAND SURVEY 1930
U. S. H. O. 1940, HYDROGRAPHIC CORRECTIONS 1942

662.. WATANABE AIRCRAFT PLANT

1239.. KYUSHU ORDNANCE PLANT

1241.. MIYATA MOTOR WORKS

DATE OF ANALYSIS--APRIL 1944

SOURCE:

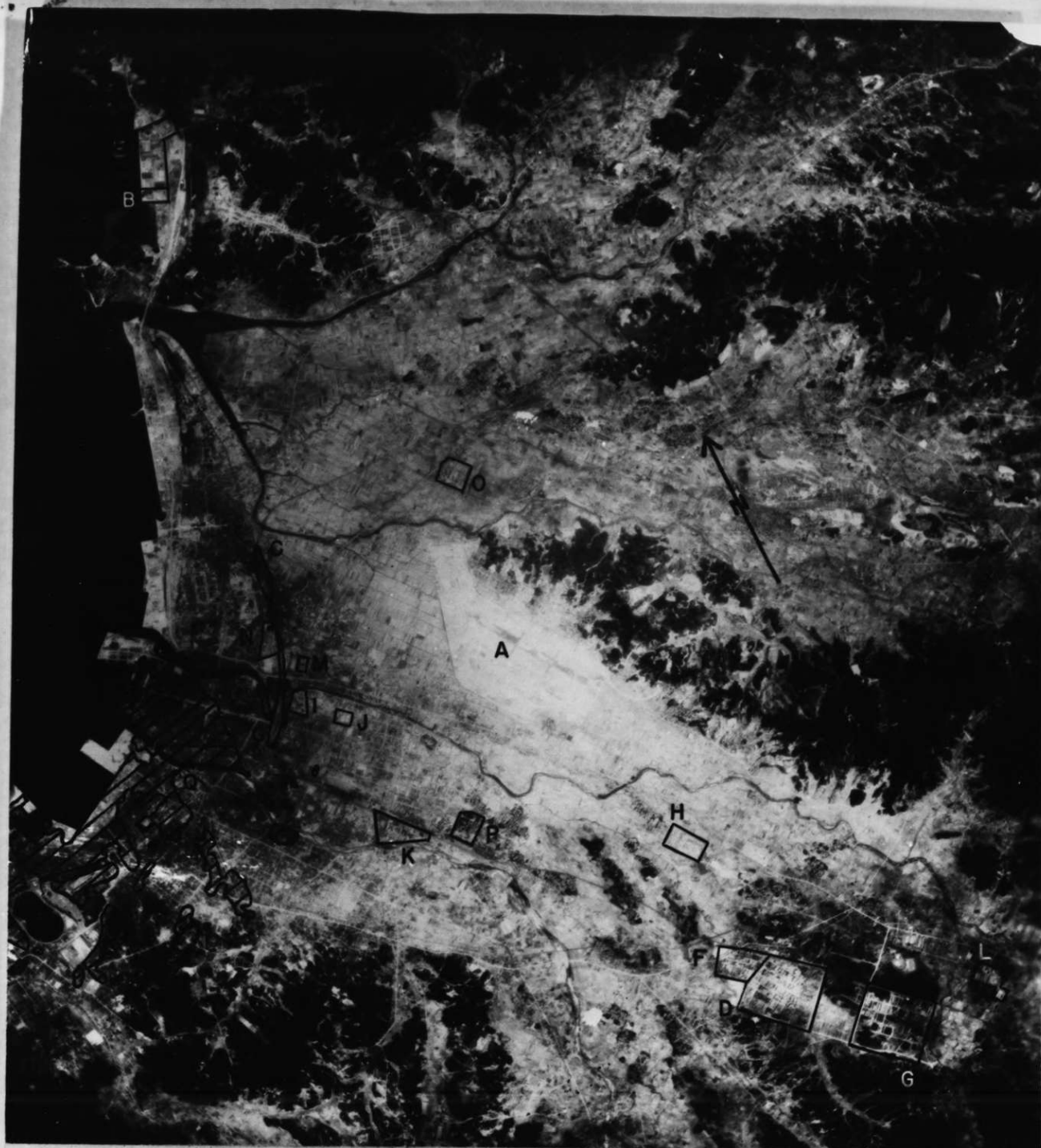
Air Objective
Folder 90.35

KURUME AREA

MAP M4

AICPOWATI #5

Fig. 1

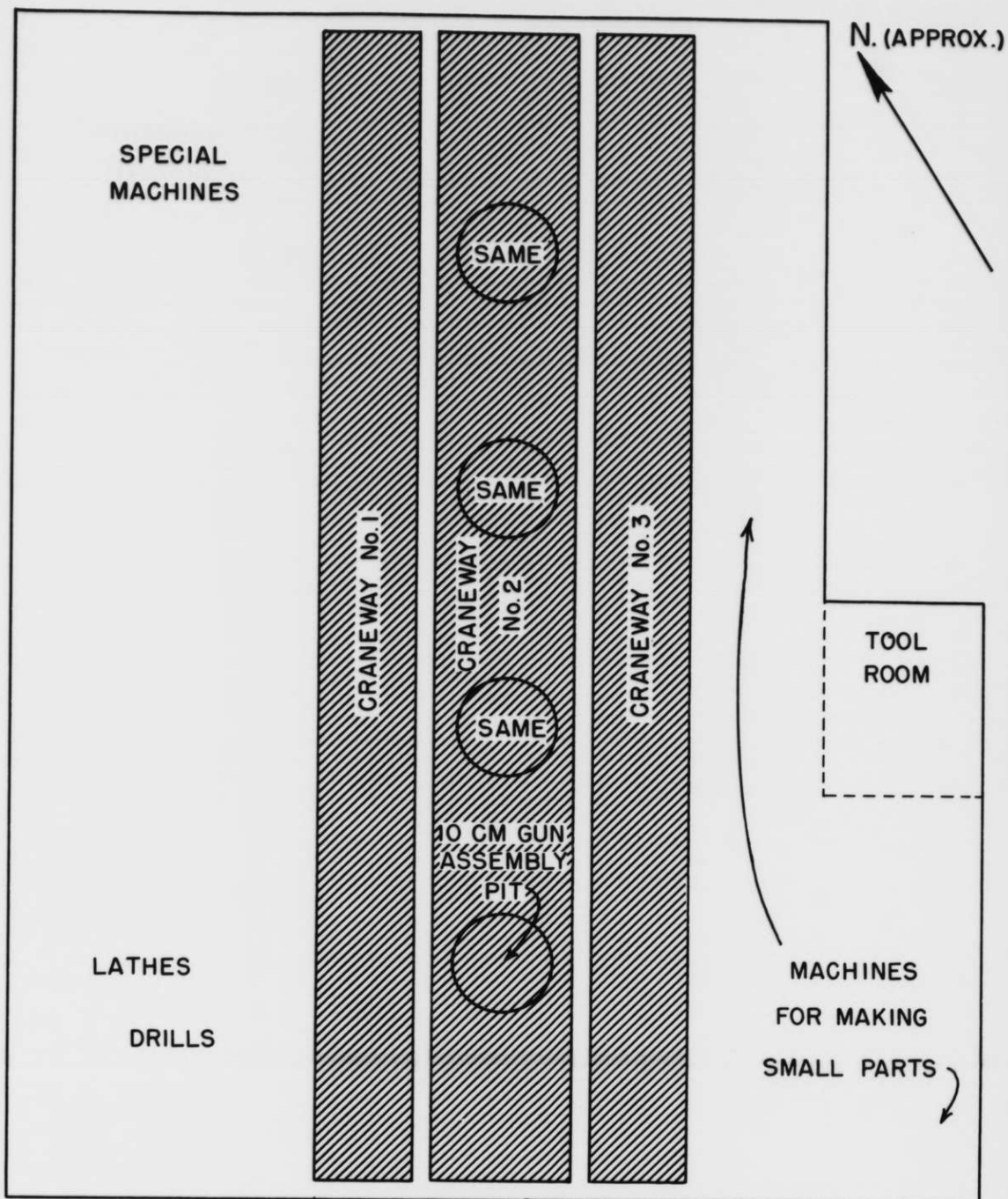


AIR TARGETS IN THE EASTERN PART OF THE HAKATA-FUKUOKA REGION, KYUSHU (90.35) AS OF 1 AUGUST 1945

AICPOWATI No. 5 - FIG. 2

- A 2510 ITAZUKA AIRFIELD
- B 2530 NAJIMA SEAPLANE STATION
- C 1270 HAKATA RR YARDS AND STATION
- D 662 KYUSHU AIRCRAFT CO., ZASSHONOKUMA PLANT: Airframe parts manufacture and sub and final assembly.
- E 2079 KYUSHU AIRCRAFT CO., KASHII PLANT: Airframe sub and final assembly, possible parts manufacture.
- F 1239 KYUSHU ORDNANCE CO., ZASSHONOKUMA: Depth charges, torpedoes, 10cm naval AA guns, MM MGs, torpedo tubes.
- G KOKURA ARSENAL, ZASSHONOKUMA FACTORY: Products unknown.
- H KYUSHU AIRCRAFT CO., ITAZUKE PLANT: Landing gear for D and E, barracks
- I FUKUOKA STEEL FOUNDRY: Parts for D and E.
- J MATSUMURE IRON FOUNDRY: Parts for D and E. Probable location.
- K NIPPON RUBBER CO., FUKUOKA PLANT: Tires for E and possibly D.
- L 1241 MIYATA MOTOR WORKS: Floats for D
- M RIKEN OPTICAL INDUSTRY: Not now a target, location and products uncertain.
- N 1238 WATANABE IRON WORKS: Not now a target, vacated and used as barracks.
- O 1873 TATARA MACHINERY WORKS: Not now a target, makes field equipment.
- P HAKATA BREWERY: Not a target.
- Q  AREA DAMAGED IN XXI B.C. URBAN INCENDIARY ATTACK 19 June 1945.



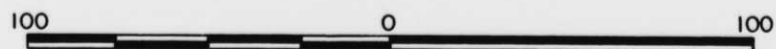


90.35 - 1239

KYUSHU ORDNANCE Co., ZASSHONOKUMA

BUILDING 17 - FLOOR PLAN

(PARTS MANUFACTURE & ASSEMBLY OF 10 CM. NAVAL GUN & 25 MM. MG)



APPROX. SCALE IN FEET

AICPOWATI # 5

FIG. 4.

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POW SOURCE



TARGET NO. 90.35-2079 NAME FUKUOKA SEAPLANE WORKS

DATE 9 May 45 P/4
COMPLETED

APPROX. COORD. 33°38'N 130°25'E PHOTO DATE 30 Dec 44

SCALE 1/6,000

F/A NO. 127
CFL 750.056

SORTIE, PRINT NOS 444BG-4MR55-V:7

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C. I. U.
TWENTIETH AIR FORCE
APO 234, c/o POSTMASTER
SAN FRANCISCO, CALIFORNIA

20 July 1945

SPECIAL SUPPLEMENT TO DAMAGE ASSESSMENT REPORT 97

FUKUOKA-90.35-URBAN

XXI Bomber Command Mission 211, 19-20 June 1945

TARGETS WITHIN BUILT-UP AREA:

DAMAGE

A. Numbered targets:

90.35-1238	Watanabe Iron Works	None visible
90.35-1255	Hakata Harbor & Facilities	30% of buildings
90.35-1265	Nippon Rubber Co.	None visible
90.35-1270	Hakata RR Yards	None visible
90.35-1872	Showa Iron Works	None visible
90.35-2166	Fukuoka RR Station & Yards	Minor damage

B. Other targets:

Saibu Gas Co.	None visible
Kanegafuchi Spinning Mill	None visible
Sumiyoshi Steam Power Plant	None visible
Riken Optical Industry	None visible
Military Brigade Hq.	60% destroyed
Warehouses	30% destroyed
Dai Nippon Beer (Alcohol) Co.	None visible
Jofuku Flour Co.	None visible
Ishido & Naka Gawa Bridges	None visible
(8 RR, 7 highway)	
Ship (200' or less) building facilities	35% destroyed
Small Unidentified Industries (21)	100% destroyed

The following targets, none of which are damaged, are within a 5 mile radius of the center of Fukuoka city:

A. Numbered targets:

90.35-663	Gannosu Airfield
90.35-664	Najima Power Plant
90.35-665	Saitozaki Petroleum Center
90.35-1873	Tatara Machinery Works
90.35-2505	Hakata Seaplane Station
90.35-2510	Itazuka Airfield
90.35-2530	Najima Seaplane Station
90.35-2538	Saitozaki Airfield
90.35-2541	Shigashima Airfield
90.35-2549	Gannosu Seaplane Station

B. Other targets:

Tatara Gawa Bridges (2 RR, 2 highway)

Approved.....
HAMILTON D. DARBY
MAJOR, AC

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TWENTIETH AIR FORCE
APO 234, c/o POSTMASTER
SAN FRANCISCO, CALIFORNIA

19 July 1945

SPECIAL SUPPLEMENT to DAMAGE ASSESSMENT REPORT NO. 108

KAGOSHIMA URBAN AREA(90.38)

XXI Bomber Command Mission 206, 17 June 1945

TARGETS within LIMITS
of BUILT UP AREA:

<u>Numbered Targets</u>	<u>Damage</u>
90.38-1517, Kagoshima Railway Repair shops.....	10 percent destroyed
90.38-1518, Kagoshima Freight Yards.....	None visible

Other Targets

Yoshima Iron Works.....	None visible
Gas Plant.....	Minor damage
Railroad Station.....	None visible
Satsuma Cotton Mill (probable war industry).....	75 percent destroyed
Boiler and Machinery Factory.....	80 percent destroyed
90.38-XXI 6114, Radio Station.....	None visible

TARGETS outside LIMITS of
BUILT UP AREA (within 5-
MILE RADIUS of CENTER of
CITY).

<u>Numbered Targets</u>	<u>Damage</u>
90.38-2514 and 2515, Kagoshima Airfield and Seaplane Station.....	Hangars and shops 35 percent destroyed by previous mission
90.38-6112, Unidentified Industry, probable aircraft plant..	None visible

Other Targets

Nippon Hydro Electric Company.....	None visible
Dai Nippon Textile Mill.....	70 percent destroyed and gutted by previous mission.
Tanabe Iron Works.....	None visible
Marine School.....	None visible
Military Barracks.....	None visible
Sakura Oil Storage.....	None visible
Navy Aviation School.....	80 percent destroyed previous mission

Approved.....
HAMILTON D. DARBY
MAJOR, AC

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PHOTO INTELLIGENCE SECTION
EVALUATION BRANCH
PHOTOGRAPHIC DIVISION
AC/AS, INTELLIGENCE

FUNCTIONAL ANALYSIS REPORT NO. F/A-127

Date 5 May 1945

TARGET NO: 90.35-2079

NAME OF TARGET: FUKUOKA SEAPLANE WORKS

LOCATION: FUKUOKA (KURUME AREA) KYUSHU, JAPAN COORD: 33°38'N, 130°25'E

PHOTOGRAPHY: Date Mission Print Nos
 30 Dec 44 444BG/4MR55 V:7,8
 8 Mar 45 3PR/5M74 2V:48,49

1. This report has been prepared from a study of aerial photographs and a consideration of evaluated ground information supplied by the Joint Target Group.

2. FUNCTION:

This plant is reportedly an important seaplane assembly plant, producing JAKE twin-float, single-engine aircraft.

3. LOCATION:

This target is located on reclaimed land on the East side of HAKATA BAY. It is N.E. of FUKUOKA about one mile North of the mouth of the TATARA RIVER.

4. SERVICES:

The KYUSHU RR passes the plant near its Eastern border affording mainline rail transportation.

A wide highway from FUKUOKA and HAKATA forms the Eastern boundary of the plant.

5. IDENTIFICATION OF FACILITIES:

Building	Occupancy
1.	Storage Building
2.	Storage Building
3.	Possible Stores Receiving Building
4.	Storage Buildings
5.	Unidentified-(Removed-not observed on cover of 8 March)
6.	Possible Offices
7.	Unidentified
8.	Probable Machine Shop (Removed-not observed on cover of 8 March)
9.	Unidentified - Antenna Alongside
10.	Boiler House and maintenance Shops
11.	Unidentified
12.	Machine Shop and Sub-assembly
13.	Maintenance and Tool Shop
14.	Storage Building
15.	Probable Sub-Assembly Shop (Removed-not observed on cover of 8 March)
16.	Storage Building
17.	Maintenance and Tool Shop
18.	Sub-Assembly Shop (in process of reconstruction or removal)
19.	Final Assembly
20.	Maintenance and Tool Shop
21.	Maintenance and Tool Shop (Removed-not observed on cover of 8 March)

- 1 -

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- 22. Sub-Assembly
- 23. Service Apron and Ramp
- 24. Service Hangar
- 25. Offices
- 26. Post Assembly Building
- 27. Probable Storage Buildings

6. ACTIVITY:

One S/E aircraft, presumably JAKE, is observed in the March cover on the service apron in front of Building #24.

Several buildings have been removed during the period between the two dates of photography,

No useful statement concerning production activity can be made.

ENCL: C.F.L. 750.056

INTERPRETED BY:

E.W. SNYDER
LIEUT. (jg) USNR

JTG CONSULTANT

E.A. MAYER

APPROVED BY:


WALTER HARRINGTON
Major, Air Corps
Chief, Evaluation Branch
Photographic Division
Office of the Asst Chief of Air Staff,
Intelligence



POPULATION
323,000
BUILT UP AREA
6.56 SQ. MI.
PTA 4 SQ. MI.

FUKUOKA
Urban Area

MISSION N°	211				
DAMAGE	1.3 sq. mi. (20%)				
WINGS	73 & 313th				
DATE	19 JUNE '45				
DAY/NIGHT	NIGHT				
BOMB TYPE	INCEND.				
AV. LOAD	14,399				
A/C AIRBORNE	237				
A/C BOMB. P.T.	221				
TONS ON P.T.	1525				
ALTITUDE	9000-10000				
BOMB. METH.	58 V-163 R				
CLAIMS	0				
LOSSES	0				

E 46 J500 ABOVE 525T
1747 INST 1000T

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NOT TO BE TAKEN
INTO THE AIR ON
COMBAT MISSIONS

TARGET: Fukuoka Urban Industrial
Area
OBJECTIVE AREA: 90.35 - KURUME

T A R G E T I N F O R M A T I O N S H E E T

FUKUOKA URBAN INDUSTRIAL AREA

Latitude: 33° 36' N
Longitude: 130° 25' E
Elevation: Sea Level

1. SUMMARY COMMENT: Fukuoka is the commercial and administrative center for the adjoining coastal plain in northern Kyushu. Its port receives a large amount of the shipping from Korea, and a major branch of the Kyushu RR runs through the city. A number of important industries are located within the area of and adjoining the city.

2. LOCATION AND IDENTIFICATION: Fukuoka Bay is in the NW section of Kyushu, 35 miles SW of Moji and Shimonoseki Straits. The bay is approximately 12 miles across at its widest part and is shaped roughly like a shoe, with the city of Fukuoka at the position of the sole. Hills rise to 1000 ft. in the vicinity of the city and to 3500 ft. a few miles south of the city.

From the NE corner of the bay a narrow arm of land extends more than halfway across the mouth of the bay, forming the top or instep of the shoe-like shape. On this arm are two airfields and several small industries.

3. TARGET DESCRIPTION: The city of Fukuoka is crescent shaped, extending for about 7 miles along the coast and from 1 to 2 miles inland. The north side of the city follows the harbor while the south side is bounded by abrupt hills. The city had a population 323,000 in 1940 and has probably grown since then, due to the increase in shipping from Korea and the development of new industries. It has a population density of about 40,000 per square mile in the congested area of the city proper.

The buildings are predominantly the single-story, tile-roof, wood-frame type that is so common in Japan. However, since a large part of the city is new and because it is a university town, it resembles in layout one of our own cities more than the ordinary Japanese hodge-podge urban industrial area. The usual heavy congestion is relieved by the three following areas: (1) a fortress in the west-central part of the city covering 200 acres

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and surrounded by a moat; (2) a park in the west section; (3) the university campus which extends for 2 miles along the coast of the northern section. The commercial and administrative section of Fukuoka, which serves Northern Kyushu as well as the city itself, is located in the center of the city.

Fukuoka is cut by seven canals or rivers large enough to serve as firebreaks. However, several of the canals are close together, thereby isolating only small sections and leaving three major sections without firebreaks. These major sections are: (1) from the Ishido River, north; (2) between the Ishido River and the Naka River; (3) from the Naka River, southwest.

Some of the larger industrial plants reported in Fukuoka are naval ordnance, rubber tire and shoe manufacture, heavy machinery and railroad shops.

4. IMPORTANCE: Numerous industries are located in and around Fukuoka, including two iron works producing naval ordnance, and a rubber company estimated to be producing 700 tires daily. Some textile mills and a number of warehouses are also located here.

The city is a funnel for all types of transportation. Kyushu's main highway runs through the city, the harbor receives a large part of the shipping from Korea, and a major branch of the Kyushu RR runs through town with the Hakata Yards, Target 1270, serving it.

It is also important as the administrative center for the surrounding coastal plain, containing a large number of government buildings.

A list of targets located in the city proper follows:

- 1238 - Watanabe Iron Works - Important producer of naval ordnance.
- 1255 - Hakata Harbor - Receives large amount of shipping from Korea.
- 1270 - Hakata RR Station - Important station and yards on one of major Kyushu lines.
- Spinning Mill
- Optical Industry
- Gas Company

A list of targets adjacent to the city follows:

- 1872 - Showa Iron Works - Producer of Naval ordnance.
- 1265 - Nippon Rubber Co. - Produces 700 tires and 1500 pr. shoes daily.
- 1873 - Tatara Machinery Works - Produces coal mining machinery.

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1237 - NAJIMA SEAPLANE BASE - 9 hangars and 12 shops at the base.
664 - NAJIMA STEAM POWER PLANT - 60,000 KW of 60-cycle.

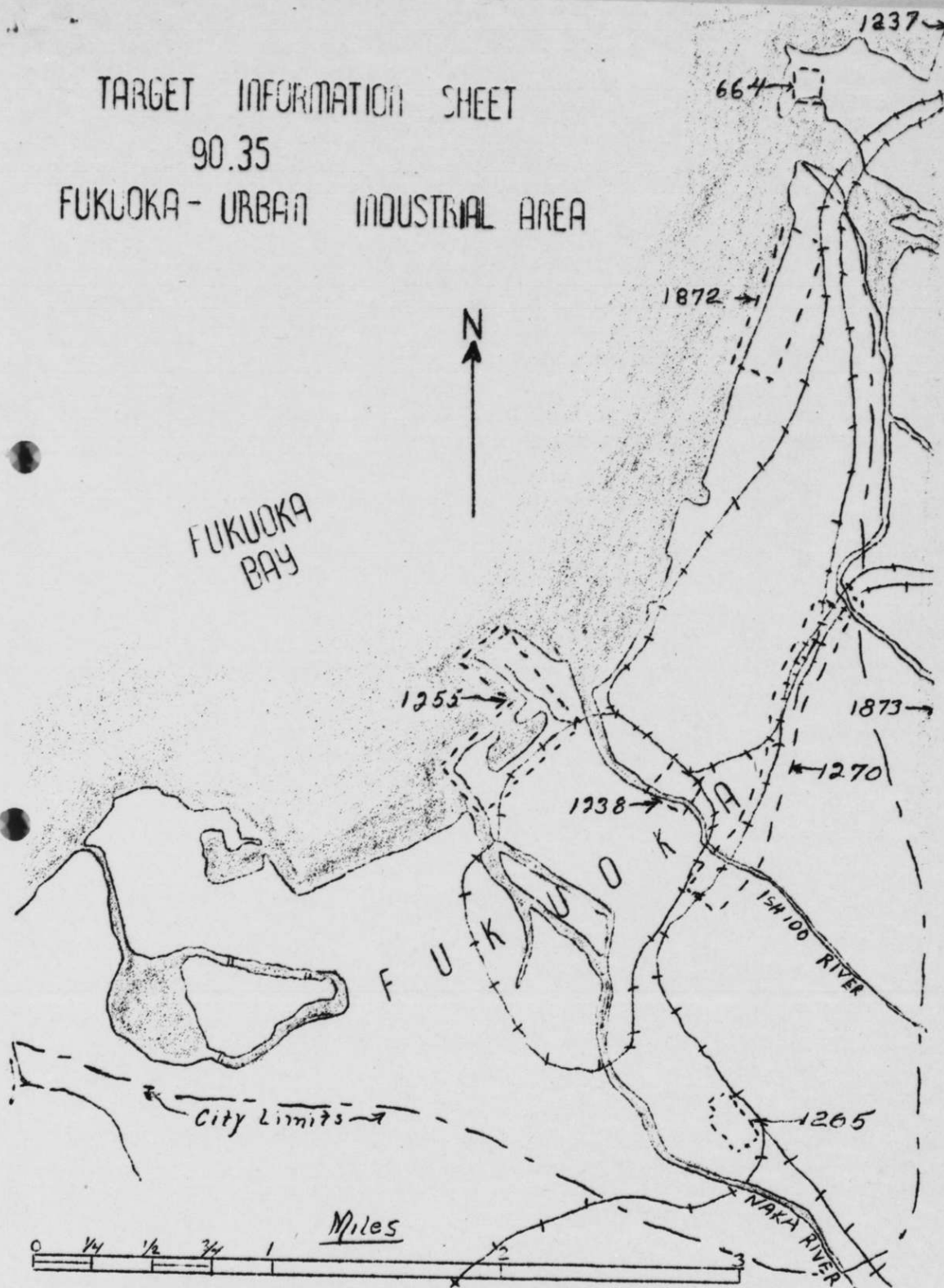
Besides the destruction of a good deal of industry, an incendiary attack on Fukuoka should destroy or disrupt important regional administrative and governmental facilities. It should also pose another problem for the already over-burdened Kyushu transportation system, and create a serious housing problem for governmental and industrial workers in the area.

5. AIMING POINTS: Aiming points will be specified in the Field Order.

22 June 1945.

Target Section, A-2
XXI Bomber Command

TARGET INFORMATION SHEET
90.35
FUKUOKA - URBAN INDUSTRIAL AREA



Target Section A2 Hq. XXI Bom. Com.

S E C R E T

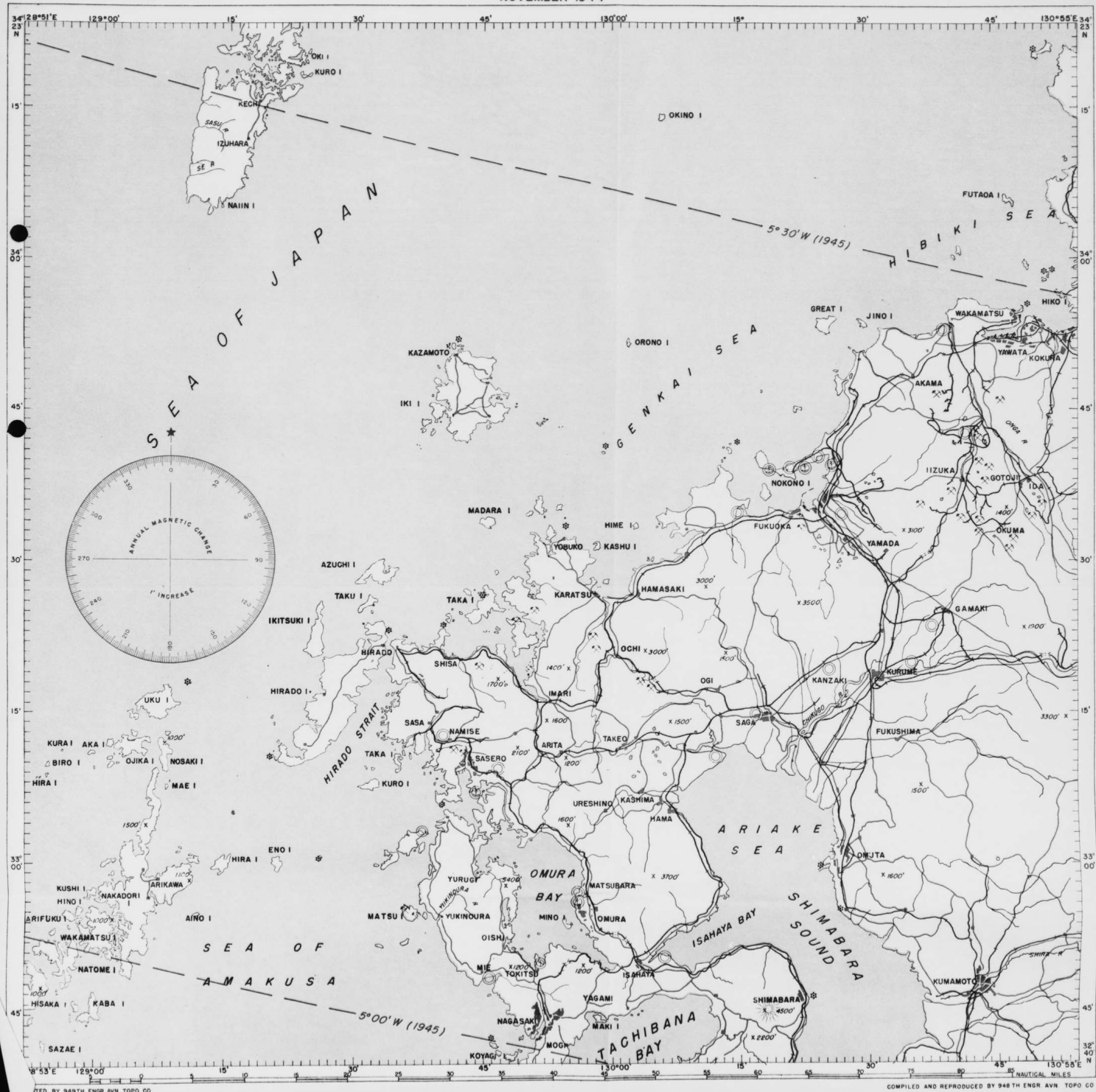
MISSION SUMMARY

Mission Number 211

28 June 1945

1. Date: 19 June 1945
2. Target: Fukuoka Urban Area (90.35)
3. Participating Units: 73rd and 313th Bombardment Wings
4. Number A/C Airborne: 237
5. % A/C Bombing Primary: 92.82% (221 primary and 2 opportunity)
6. Type of Bombs and Fuzes: E-46 and E-36, 500 lb. incendiary clusters set to open 2500' above target, and AN-M47A2 incendiary bombs with instantaneous nose.
7. Tons of Bombs Dropped: 1525 tons on primary and 13.3 tons on opportunity.
8. Time Over Primary: 0011K - 0153K
9. Altitude of Attack: 9000 - 10,000 feet
10. Weather Over Target: 1/10 - 3/10
11. Total A/C Lost: 0
12. Resume of Mission: 73rd Wing strike photos showed good results, with numerous fires in the built up area of the city. 1.3 sq. miles destroyed (20%) of built up area. Medium and heavy A/A, milder to moderate and generally inaccurate. Twelve E/A sighted made 4 attacks. Ten B-29's landed at Iwo Jima. Fourteen B-29's were non-effective. Average bomb load: 14,399 lbs. Average fuel reserve: 717 gallons.

S E C R E T



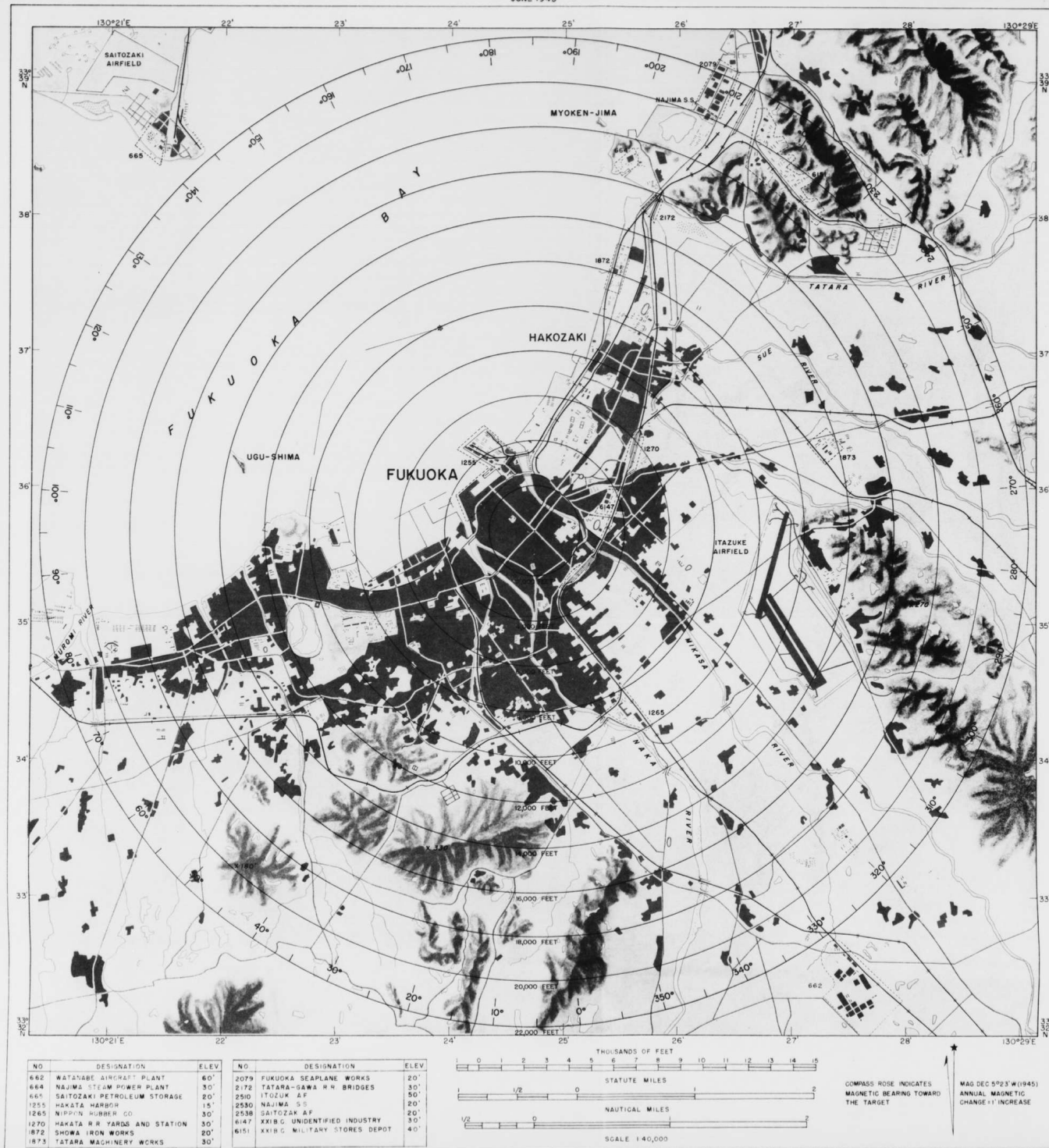
A-2 SECTION
TWENTIETH AIR FORCE

KURUME AREA

TARGET NO. 90.35 - URBAN (33°19'N - 130°31'E) ELEV APPROX 30 FEET
ALL DISTANCES ARE IN NAUTICAL MILES

TARGET CHART NO. 41
RESTRICTED







FUKUOKA AREA
TARGET 9035 URBAN

33° 37' N 130° 25' E
ELEVATION (APPROX) 0-367 FEET
APRIL 1945

A-2 SECTION
XXI BOMBER COMMAND
3D PHOTO RCN SQ PHOTOS
29 MARCH 1945
PREPARED BY 949TH ENGR AVN TOPO CO

MAG DEC
5° 23' W (1945)
ANNUAL
CHANGE
1" INC

SAITOHZAKI
AIRFIELD

HARATA SEAPORT

2506 STATION

KANOSU AIRFIELD

ITAZUKE
AIRFIELD

1237

1872

1872

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C. I. U.
TWENTIETH AIR FORCE
APO 234, c/o POSTMASTER
SAN FRANCISCO, CALIFORNIA

20 July 1945

SPECIAL SUPPLEMENT TO DAMAGE ASSESSMENT REPORT 97

FUKUOKA-90.35-URBAN

XXI Bomber Command Mission 211, 19-20 June 1945

TARGETS WITHIN BUILT-UP AREA:

DAMAGE

A. Numbered targets:

90.35-1238	Watanabe Iron Works	None visible
90.35-1255	Hakata Harbor & Facilities	30% of buildings
90.35-1265	Nippon Rubber Co.	None visible
90.35-1270	Hakata RR Yards	None visible
90.35-1872	Showa Iron Works	None visible
90.35-2166	Fukuoka RR Station & Yards	Minor damage

B. Other targets:

Saibu Gas Co.	None visible
Kanegafuchi Spinning Mill	None visible
Sumiyoshi Steam Power Plant	None visible
Riken Optical Industry	None visible
Military Brigade Hq.	60% destroyed
Warehouses	30% destroyed
Dai Nippon Beer (Alcohol) Co.	None visible
Jofuku Flour Co.	None visible
Ishido & Naka Gawa Bridges (8 RR, 7 highway)	None visible
Ship (200' or less) building facilities	35% destroyed
Small Unidentified Industries (21)	100% destroyed

The following targets, none of which are damaged, are within a 5 mile radius of the center of Fukuoka city:

A. Numbered targets:

90.35-663	Gannosu Airfield
90.35-664	Najima Power Plant
90.35-665	Saitozaki Petroleum Center
90.35-1873	Tatara Machinery Works
90.35-2505	Hakata Seaplane Station
90.35-2510	Itazuka Airfield
90.35-2530	Najima Seaplane Station
90.35-2538	Saitozaki Airfield
90.35-2541	Shigashima Airfield
90.35-2549	Gannosu Seaplane Station

B. Other targets:

Tatara Gawa Bridges (2 RR, 2 highway)

Approved.....

Hamilton D. Darby
HAMILTON D. DARBY
MAJOR, AC

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C. I. U.
XXI Bomber Command
APO 234, c/o POSTMASTER
SAN FRANCISCO, CALIFORNIA

29 June 1945

DAMAGE ASSESSMENT REPORT NO. 97

FUKUOKA CITY

Mission No.: 3PR5M 289

Target Area: Kurume (90.35)

Date Flown: 21 June 1945

Airplane Commander: W.L. Abbott,
1st Lt, AC

XXI Bomber Command Mission 211 of 19-20
June destroyed 21.5 percent (1.37 square miles)
of Fukuoka City's built up area.

The city had not been damaged previously.*

Two numbered targets damaged include:

Target 1255, Hakata Harbor, 30% of buildings destroyed.

Target 1270, Hakata Railroad station and yards,
.....minor damage.

Damage is centered around the harbor area
and scattered throughout the city. A very small
amount of spotty damage extends into Chiyomachi
and Hokazakimachi.

*Note: The political boundary of Fukuoka City
(as shown in AMS, Fukuoka, Kyushu, Sheet 4147-1)
encloses an area of 8.4 square miles. The built
up area, including Chiyomachi and Hokazakimachi,
totals 6.56 square miles. Fukuoka, Chiyomachi and
Hokazakimachi constitute one target area known as
Fukuoka (see Inclosure No. 1).

References: AMS Fukuoka, Kyushu, Sheet 4147-1.
AAF Air objective Folder 90.35
1 July 1944.

This report is based on pre-strike photos from 3PR5M 121
and post-strike photos from 3PR5M 289.

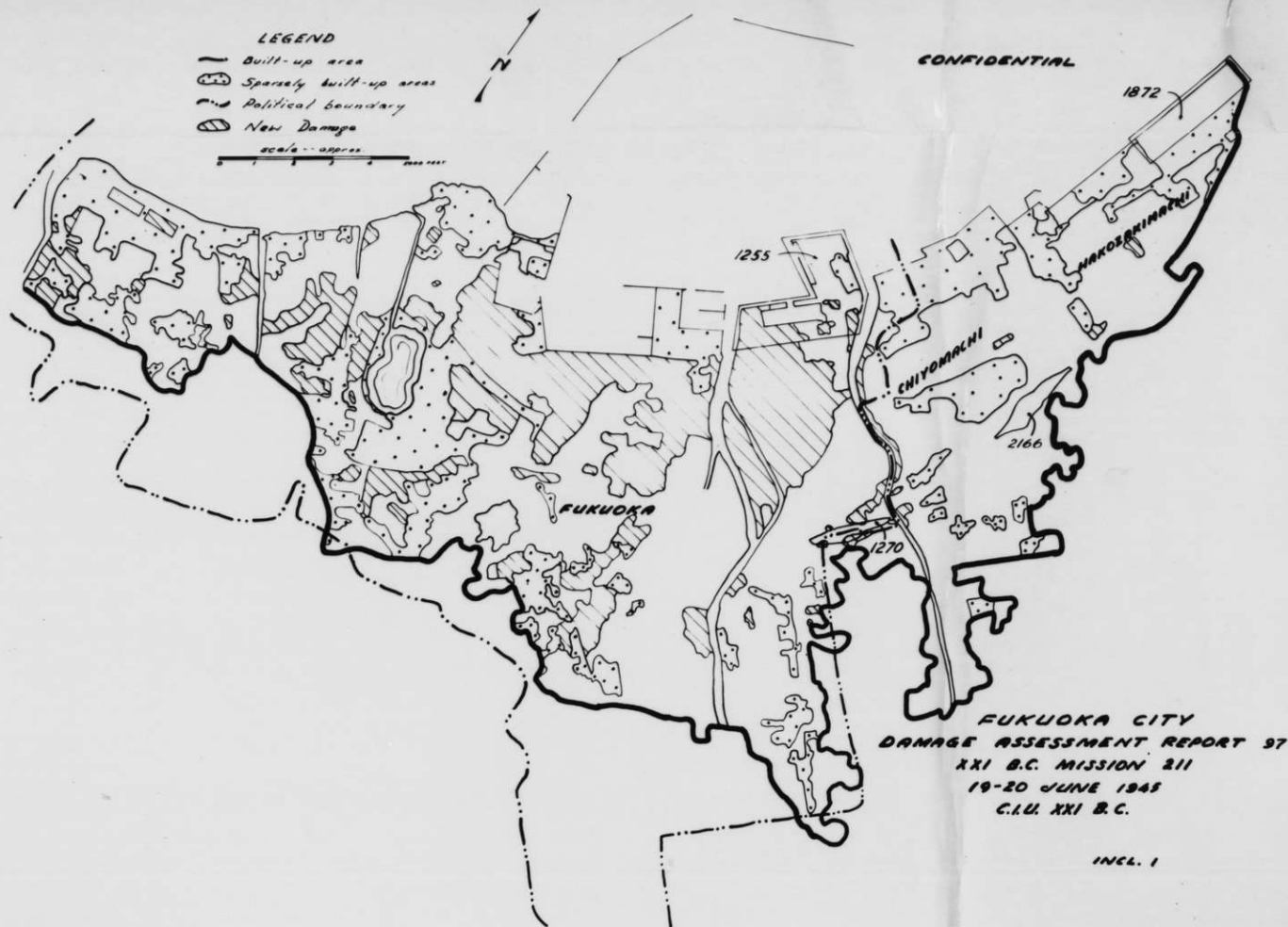
Inclosures: 1. Outline map.
2. Annotated mosaic (pre-strike).
3. Mosaic (post-strike).

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Approved.....

HAMILTON D. DUFFY
FOR MAJOR, AC

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FUKUOKA CITY
DAMAGE ASSESSMENT
REPORT 97
XXI B.C. MISSION 211
19-20 JUNE 1945
C.I.U. XXI B.C.

LEGEND:  NEW DAMAGE

INCL. 2



POST STRIKE
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