MISSION NO. 277 FUKUI URBAN AREA
278 HITACHI URBAN AREA
19 JULY 45 279 CHOSI URBAN AREA
280 OKAZAKI URBAN AREA
281 NIPPON OIL REF., OSAKA

Mission No. 277 Fukui Urban Area
278 Hitachi Urban Area
19 July 45 279 Chosi Urban Area
280 Okazaki Urban Area
281 Nippon Oil Ref., Osaka

DECLASSIFIED
Authority NND 760063
By OM NARA Date 7/29/10

DECLASSIFIED
Authority NND760063
By CH NARA Date 7/29/10

SPECIFIC SUBJECT	TYPE OF MESSAGE	MESSAGE NO.	DATE AND TIME SENT	DATE AND TIME REC'D	INITIALS
Brief of Field Order	Secret	AV19-01		190320Z	

MISSION PLAN

2-5248-33

DECLASSIFIED
Authority NND 760063
By CM NARA Date 7/29/10

SECRET COPY
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OPR
TOP SECRET

WCR V YAF NR 3 OP OP TOP SECRET

FN-19-01

FROM LEMAY COMGENAAF 20 190320Z

TO COMGENUSASTAF (REAR) WASHINGTON

INFO COMGENUSASTAF GUAM

AIMCR 5896 SUBJECT: BRIEF OF FIELD ORDER NO.101 FUKUI, HITACHI, CHOSHI, AND OKAZAKI URBAN AREAS AND TARGET 90.25 - 1203 ARE SCHEDULED TO BE ATTACKED ON NIGHT OF 19/20 JULY. total 520

	TARGET	MPI	FORCE	TONNAGE
1.	FUKUI	051085	58TH WG. 120 A/C	960
2.	HITACHI	115121	73RD WG. 120 A/C	900
3.	CHOSHI	083084	313TH WG. 90 A/C	765
4.	OKAZAKI	044035	314TH WG. 120 A/C	900
5.	90.25 - 1203	055066	315TH WG. 70 A/C	630

Classification Changed to SECRET 5-9-46 By Authority of C. G. AAF, by Ray G. Baker
Ray G. Baker, Capt. A. C.

MPI REFERENCE: XXI BOMCOM LITHO-MOSAIC:

1. FUKUI AREA 90.15 - URBAN.
2. HITACHI AREA 90.14 - 1476.
3. CHOSHI AREA 90.14 - URBAN.
4. OKAZAKI AREA 90.20 - URBAN.
5. 90.25 - 1203 - AMAGASAKI-OSAKA AREA 90.25 - URBAN.

ROUTE: OVER IWO JIMA TO AND FROM TARGET:

FUKUI.	HITACHI.
3335N - 13558E	3530N - 14026E
352630N - 13609E (IP)	3556N - 1402830E (IP)
TARGET (3604N - 13614E)	TARGET (3635N - 14039E)
RIGHT TURN	RIGHT TURN
3438N - 13805E	3545N - 14105E
CHOSHI	**OKAZAKI**
3352N - 13936E	341630N - 136673 (IP)
351030N - 1402230E (IP)	TARGET (3457N - 13710E)
TARGET (3544N - 14050E)	RIGHT TURN
RIGHT TURN	3455N - 13750E
90.25 - 1203	
3350N - 13445E	
341530N - 13504E (IP)	
TJRGET (3442N - 13524E)	
3453N - 13526E	
RIGHT TURN	
3407N - 13618E	

TOP SECRET

BOMB LOAD:

FUKUI: 1 GROUP - M-47 IB'S
3 GROUPS - CLUSTERS CONTAINING M-69 BOMBS.

HITACHI: 2 GROUPS - M-47 IB'S
R 2 GROUPS - M17 IC'S.

DECLASSIFIED
Authority NND760063
By CM NARA Date 7/29/10

TARGET (3604N - 13614E)

RIGHT TURN

3438N - 13805E

CHOSHI

3352N - 13936E

351030N - 1402230E (IP)

TARGET (3544N - 14050E)

RIGHT TURN

90.25 - 1203

3350N - 13445E

341530N - 13504E (IP)

TJRGET (3442N - 13524E)

3453N - 13526E

RIGHT TURN

3407N - 13618E

TARGET (3635N - 14039E)

RIGHT TURN

3545N - 14105E

OKAZAKI

341630N - 136673 (IP)

TARGET (3457N - 13710E)

RIGHT TURN

3455N - 13750E

[redacted] SECRET

BOMB LOAD:

FUKUI: 1 GROUP - M-47 IB'S

3 GROUPS - CLUSTERS CONTAINING M-69 BOMBS.

HITACHI: 2 GROUPS - M-47 IB'S

R 2 GROUPS - M17 IC'S.

CHOSHI: 3 GROUPS - CLUSTERS CONTAINING M-69 BOMBS.

OKAZAKI: 2 GROUPS - M-47 IB'S.

2 GROUPS - CLUSTERS CONTAINING M-69 BOMBS.

90.25-1203 - 70 A/C 500 LB GP'S.

[redacted] SECRET

TIME CONTROL:

WING	TAKE OFF	OVER TARGET	RETURN
58	190700Z.	191430Z	192110Z
73	190900Z	191530Z	192210Z
313	190730Z	191440Z	192105Z
314	190830Z	191550Z	192225Z.
315	190730Z	191440Z	192130Z

GENERAL SCHEME OF ATTACK: BY INDIVIDUAL A/C ITH MAIN FORCE

PRECEDED BY 12 PATHFINDERS FROM EACH WING EXCLUDING 315TH WING.

ALTITUDE OF ATTACK FROM 10,000 - 15,400 FEET. STAGGERED ALTITUDE

ENROUTE TO AND FROM TARGET. NO FIGHTER ESCORT.

TOD:190400Z HVM.

TOD:190421Z TB

ROGER:190421Z WCR

[redacted] SECRET

DECLASSIFIED
Authority NND760063
By CH NARA Date 7/29/10

SPECIFIC SUBJECT	TYPE OF MESSAGE	MESSAGE NO.	DATE AND TIME SENT	DATE AND TIME REC'D	INITIALS
I.O Reports 277-278	Telecon	JN-19-14		191020Z	JK
IO Reports 279-280	Telecon	JN-19-18		191140Z	JK
IO Reports 281	Telecon	JN-19-16		191045Z	JK

TAKE OFF REPORTS

DECLASSIFIED
Authority NND760063
By CH NARA Date 7/29/10

WCR V RGE NR 31 OP OP SECRET
FN'19-16

FROM: COMGENAAF 20 GUAM 191045Z

TO : COMGENUSASTAF (REAR) WASHINGTON

INFO: COMGENUSASTAF GUAM

AIMCR 5922 SUBJECT: TAKE OFF REPORT FOR MISSION NO. 281 TARGET NIPPON OIL REFINERY, AMAGASAKI, FLOWN 19-20 JULY 1945.

1. UNIT:
15THPWING

2. A/C SCHEDULED: 85

3. A/C AIRBORNE: 84

4. FIRST A/C OFF: 190730Z

5. LAST A/C OFF: 190814Z

6. REMARKS: 2 WIND A/C AIRBORNE IN ADDITION TO MAIN FORCE OFF AT 190650Z AND 190658Z.

BASES AT TAKE OFF: SCATTERED LOW CLOUDS AND BROKEN MIDDLE AND HIGH CLOUDS WITH SCATTERED SHOWERS.

ROUTE: SCATTERED LOW AND HIGH CLOUDS TO IWO AND SCATTERED LOW, MIDDLE AND HIGH CLOUDS FROM IWO TO 30 DEG N. FROM 30 DEG N TO 31 DEG N THERE WILL BE OVERCAST LOW, MIDDLE AND HIGH CLOUDS WITH MODERATE RAIN DUE TO A FRONT. FROM 31 DEG N TO THE TARGET AREA THERE WILL BE BROKEN LOW AND MIDDLE CLOUDS AND OVERCAST HIGH CLOUDS WITH LIGHT RAIN.

TARGET: 9/10 LOW CLOUDS, BASE 2,000 FT, TOP 6,000 FT; 6/10 MIDDLE CLOUDS BASE 16,000 FT, TOP 17,000 FT; 10/10 HIGH CLOUDS AT 30,000 FT; LIGHT RAIN. WINDS AT 15,000 FT WILL BE 240 DEG AT 35 KNOTS.

BASE ON RETURN: BROKEN LOW, MIDDLE AND HIGH CLOUDS AND SCATTERED LIGHT SHOWERS.

END...

TOD 191132Z RET
ROGER V WCR

SECRET

SECRET

SECRET

OPR

DECLASSIFIED
Authority NND 760063
By CM NARA Date 7/29/10

REC'D COPY

OPNS

SECRET

WCR V RGE NR 34 OP OP SECRET 19 JULY 45

FN-19-18 HRPT FN-19-18

FROM: COMGENAAF 20 GUAM 191140Z

TO : COMGENUSASTAF (REAR) WASHINGTON

INFO: COMGENUSASTAF GUAM

BOMWG'S 58-73-313-314-315 ATTN: A-2 (T TO ALL GROUPS ()) (ROUTINE) AIMCR 5924 SUBJECT: TAKE OFF REPORT FOR MISSION NOS. 279 AND 280, TARGETS CHOSHI AND OKAZAKI URBAN AREAS, FLOWN 19-20 JULY 1945.

MISSION	279	280
1. UNITS:	313 WING [redacted]	314 WING
2. A/C SCHEDULED:	99	132
3. A/C AIRBORNE:	97	131
4. FIRST A/C OFF:	190901Z	190900Z
5. LAST A/C OFF:	190958Z	191020Z

6. REMARKS: STRIKE 279: 2 RCM A/C AND 1 WIND RUN AWXC AIRBORNE IN ADDITION TO MAIN FORCE. STRIKE 280: ONE SUPERDUMBO AIRBORNE 190302Z AND ONE RADAR WIND RUN A/C AIRBORNE 190700Z NOT INCLUDED IN TOTAL. FOR WEATHER SEE OUR AIMCR 5920

SECRET

..END..

TOD 191318Z RET

ROGER 191318Z V WCR

DECLASSIFIED
Authority NND760063
By CM NARA Date 7/29/10

WCR V RGE NR 30 OP OP OP SECRET

FN-19014

FROM: COMGENAAF 20 GUAM 191020Z

TOP SECRET

OPR

TO : COMGENUSASTAF (REAR) WASHINGTON

INFO: COMGENUSASTAF GUAM BOMWG'S 58-73-313-314-315 ATTN: A-2 T TO GPS

ROUTINE

AIMCR 5920 SUBJECT: TAKE OFF REPORT FOR MISSION NOS. 277 AND 278,

TARGETS FUKUI AND HITACHI URBAN AREAS, FLOWN 19-20 JULY 1945.

MISSION	277	278
1. UNITS:	58 WING	73 WING
2. A/C SCHEDULED:	132	130
3. A/C AIRBORNE:	130	130
4. FIRST A/C OFF:	190701Z	190730Z
5. LAST A/C OFF:	190843Z	190847Z

TOP SECRET

6. REMARKS: STRIKE 277: 2 WIND RUN A/C AND 1 SUPERDUMBO AIRBORNE IN ADDITION TO MAIN FORCE. STRIKE 278: 2 SUPERDUMBOS AND 1 WEATHER A/C AIRBORNE IN ADDITIOM TO MAIN FORCE.

BASES AT TAKE OFF: BROKEN LOW, MIDDLE AND HIGH CLOUDS WITH SCATTERED LIGHT SHOWERS.

ROUTE: SCATTERED LOW AND HIGH CLOUDS TO IWO BECOMING SCATTERED LOW, MIDDLE AND HIGH CLOUDS BETWEEN IWO AND 30 DEG. N. FROM 30 DEG N TO 31 DEG N THERE WILL BE OVERCAST LOW, MIDDLE AND HIGH CLOUDS AND MODERATE

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Authority NND 760063
By CH NARA Date 7/29/10

RAIN ASSOCIATED WITH A FRONT. FROM 31 DEG N TO FUKUI AND OKAZAKI:

OVERCAST LOW AND HIGH CLOUDS AND BROKEN MIDDLE CLOUDS WITH SCATTERED

LIGHT SHOWERS
~~OA)885 9234~~. FROM 31 DEG N TO HITACHI AND CHOSHI: BROKEN LOW AND

MIDDLE CLOUDS AND OVERCAST HIGH CLOUDS WITH LIGHT RAIN.

~~TOP~~ SECRE

TARGETF: CHOSHI (313) 8/10 LOW CLOUDS, BASE 1,000 FT, TOP 3,000 FT;

4/10 HIGH CLOUDS AT 31,000 FT; PATCHY FOG. WINDS AT 10,000 FT WILL BE

240 DEG AT 30 KNOTS.

HITACHI: 8/10 LOW CLOUDS, BASE 1,000 FT, TOP 3,000 FT; 4/10 HIGH CLOUD

AT 31,000 FT; PATCHY FOG. WINDS AT 12,000 FT WILL BE 244 DEG AT 32 KNOTS

FUKUI: 3/10 LOW CLOUDS, BASE 2,500 FT, TOP 5,000 FT; 3/10 MIDDLE CLOUDS,

AT
~~8~~ BASE 16,000 FT, TOP 17,000 FT; 8/10 HIGH CLOUDS AT 30,000 FT. WINDS AT

13,000 FT WILL BE 240 DEG AT 33 KNOTS.

OAZAKI: 9/10 LOW CLOUDS, BASE 1,200 FT ~~15~~, TOP 5,000 FT; 5/10 MIDDLE

CLOUDS, BASE 16,000 FT, TOP 17,000 FT; 9/10 HIGH CLOUDS AT 30,000 FT.

WINDS AT 10,000 FT WILL BE 240 BEG AT 30 KNOTS.

BASE ON RETURN OF SCATTERED LOW AND MIDDLE CLOUDS AND BROKEN HIGH CLOUDS.

TAKE OFF FOR STRIKES 279 AND 280 WILL FOLLOW.

END...

TOD:1057Z AE K

TOD V RGE 191125Z LC

ROGER SBWCR 1125Z

~~TOP~~ SECRET

Classification Changed to
SECRET 5-9-46 By Authority of
C. G. AAF, by Ray G. Baker
Ray G. Baker, Capt. A. C.

DECLASSIFIED
Authority NND760063
By CM NARA Date 7/29/10

SPECIFIC SUBJECT	TYPE OF MESSAGE	MESSAGE NO.	DATE AND TIME SENT	DATE AND TIME REC'D	INITIALS
Cons. B.a. 277+278	Telecon	7N-19-23		191740Z	ER
Cons. B.a. 279-280	Telecon	7N-19-25		191855Z	ER
Cons. B.a. 281	Telecon	7N-19-22		191715Z	ER
R/S to DABS-	Typed				ER
Return Report: 277- Fukki 278- Hitachi	Telecon	20-08		0440 I	MB
Return Report: 279 - Choshi 280 - Okasaki 281 - Nippon oil Co	Telecon	20-09		0734 I	MB

BOMB STRIKE
RETURN RPTS

DECLASSIFIED
Authority NND760063
By CM NARA Date 7/29/10

WCR V RGE NR 20 OP OP SECRET SECRET REC'D COPY

NXX
FN-20-09

FROM: COMGENAAF 20 GUAM 208526

TO : COMGENUSASTAF (REAGJL WASHINGTON
INFO: COMGENUSASAF GUAM

SECRET

AIMCR 5957 SUBJECT: RETURN REPORT FOR MISSION 279 TARGET CHOSHI URBAN AREA (90.14) 280 TARGET OKAZAI URBAN AREA (90.28), AND 281 TARGET (NIPPON OIL REFINERY AND TANK FARM (90.25-1203) FLOWN 19 JULY 45.

MISSION NO:	H 279	280	281
7. UNIT:	AF20 313	314 C	315
2. A/C RETURNED:	GEPR 94	127	83
3. A/.: -2-6:	8(IWO) 3	4	1
4. KNOWN LOSSES:	0 0	0	0
5. A/C MISSING:	0 0	0	0
6 TIME DOWN FIRST:	192037Z 192109Z	192216	192037Z
7. TIME DOWN LAST:	200040Z 192355Z	200040Z	192229
8. A/C NOT BOMBING	4	1	
9. A/C BOMBS UNKNOWN:	8 3	4	1

10. TARRET ATKKD	NO A/C	CLOUD	ALTITUDE	METHOD	RESULTS
STK 279-CHOSHI (PT)	88	3-10/10	10,500	87-RAD,1-VIS	UNOBS-EXCEL
STK 280-OKAZAKI (PT)	122	0-9/10	15,200'	67-RAD,55-VIS	UNOB-EXCE
NAKIRI (OPP)	1	7/10 H	8,600'	RADA	EXCELLENT
STK 281-NIPPON IL					
L(RPTING LINE ABOVE)					
STK 281-NIPPON OIL REF					

SECRET

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Authority NND760063
By CH NARA Date 7/29/10

STK 279-CHOSHI (PT)	88	3-10/10	10,500	87-RAD,1-	
STK 280-OKAZAKI (PT)	122	0-9/10	15,200'	67-RAD,55-VIS	UNOB-EXC
NAKIRI (OPP)	1	7/10 H	8,600'	RADA	EXCELLENT

STK 281-NIPPON IL

L(RPTING LINE ABOVE)

SECRET

STK 281-NIPPON OIL REF

(PT)	82	8/10/10	15,600'	RADAR	UNOBS
SHIMOTSU OIL REF (PT, 90.25-1764)	2	10/10	15,250'	RADAR	UNOBSERVED

SEEPARAGRAPH 14)

11. E/A OPPOSITION: NIL

12. FLAK	CALIBER	INTENSITY	ACCURACY
STK 279-TARGET	HVY-MED-LIGHT	MGR-MOD	INACCURATE

2 GROUND TO AIR ROCKETS OBSERVED AT PT)

STK 280-TARGET	VY-MED	MEAGER	INACCURATE
STK281-TAGGET	HEAVY	MGR-MOD	ACCURATE-INACC

J13. OBSERVATIONS:

N	OBSERVATION	TIME	ALTITUDE	LOCATION
K	LARGE FIRE	191435Z	15980O'	3343N 13522E

FIRES FOR 100 MILES DISTANCE --- H -- SOUTH NAGOUJ AREA

EXPLOSION TO 2508(' ALTITUDE 191628Z -- TARGET AREA (OKAZAKI)

14. REMARKS: STRIKE 279: 10/10 CLOUDS PREVENTED VISUAL OBSERVATION OF RESULTS BUT LARGE GLOW WAS REPORTED OVZ TARGET AREA:

STK 281: SHIMOTSU OIL REF(90.25-1764) WAS ATTACKED BY 2 WEATHZR A/C AND ARE INCLUDED ONLY IN PARAGRAPH 10.

THIS REPORT IS FRAGMENTARY AND SUBJECT TO CORRECTION.

SECRET

TOC200626Z TAS

END..

TOD: :280734Z HH

ROGER VN WCR

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Authority NND760063
By CM NARA Date 7/29/10

WCR V RGE NR 13 I OP OP SECRET

REC'D COPY

SECRET

FN-20-08

FROM: COMGENAAKS20 GUAM 200355Z

TO: COMGENUSASTAF (REAR) WASHINGTON

INFO: COMGENUSASTAF GUAM

AIMCR 5950 SUBJECT: RETURN REPORT FOR MISSIONS 277 ARGET FUKUI URBAN AREA)90.15) AND 278 TARGET HITACHI URBAN AREA (90.14-1476) FLOWN 19, JULY 45.

MISSION NO.		277	278
1. UNIT:	AF 20	58	73
2. A/C RETURNED:	242	115	127
3. A/C AWAY:	16 (IWO)	15	1
4. KNOWN LOSSES:	1	0	1 (SEE PAR 14)
5. A/C MISSING	1	0	1
6. TIME DOWN FIRST:	192046Z	192111Z	192046Z
7. TIME DOWN LAST:	192310Z	H 192310Z	192302Z
8. A/C NOT BOMBING:	5	2	3
9. A/C BOMBS UNKNOWN:	4	3	1

10. TARGETS ATKD:	NO A/C	CLOUD	ALTITUDE	METHOD	RESULTS
STK 277(FUKUI (PT)	125	0-3/10	12,800'	116 VIS	GOOD-EXCELL
H				6 -RAD	
				3 -UNKNOWN	
STK 278 HITACHI (PT)	126	9-10/10	12,600'	122RAD,4-VIS	UNOBS
TORI SHIMA (OT)	1	3/10	8,700'	RADAR	UNOBS

11. E/A OPPOSITION: NIL

12. FLAK:	CALIBER	INTENSITY	ACCURACY
STK 277-TARGET	HVY7MED-LIGHT	MEAGER	INACCURATE
STK 278-TARGET	MED - HVY	MEAGER	INACCURATE

13. OBSERVATIONS:

OBSEVVATION	TIME	ALTITUDE	LOCATION
POSSIBLE BALLON OR PARACHUTE	191459Z	12,800'	S EDGE OF HITACHI AT 11,000'

14. REMARKS: STRIKE WUUAW WEATHER A/C (IN TARGET AREA FOR APPROXIMATELY 1 1/2 HOURS) EPORTED VERY LARGE FIRES VISIBLE FOR 100 MILES IN CENTER OF TARGET WITH SMOKE TO WELL OVER 15,000'. STRIKE 278 - 1 A/C IS MISSING TO REASONS UNKNOWN. 1 A/C DITCHED SHORTLY AFTER TAKEOFF. 5 SURVIVORS AND 4 DEAD PICKED UP. 2 ARE MISSING. 1 WEATHER A/C ALSO BOMBED PRIMARY TARGET ANDHIS INCLUDED IN PARAGRAPH 10 ONLY.

TNIS RPT THIS REPORT IS FRAGMENTARY AND SUBJECT TO CORRECTION.

END...

ID

TOD:0440Z MS

ROGER V WCR 0440Z

SECRET

DECLASSIFIED
Authority NND760063
By CM NARA Date 7/29/10

FN-20-08

SECRET

FROM: COMGENAAKS20 GUAM 200355Z

TO: COMGENUSASTAF (REAR) WASHINGTON

INFO: COMGENUSASTAF GUAM

AIMCR 5950 SUBJECT: RETURN REPORT FOR MISSIONS 277 ARGET FUKUI URBAN AREA)90.15) AND 278 TARGET HITACHI URBAN AREA (90.14-1476) FLOWN 19, JULY 45.

MISSION NO.		277	278
1. UNIT:	AF 20	58	73
2. A/C RETURNED:	242	115	127
3. A/C AWAY:	16 (IWO)	15	1
4. KNOWN LOSSES:	1	Ø	1 (SEE PAR 14)
5. A/C MISSING	1	Ø	1
6. TIME DOWN FIRST:	192046Z	192111Z	192046Z
7. TIME DOWN LAST:	192310Z H	192310Z	192302Z
8. A/C NOT BOMBING:	5	2	3
9. A/C BOMBS UNKNOWN:	4	3	1

10. TARGETS ATKD:	NO A/C	CLOUD	ALTITUDE	METHOD RESULTS
STK 277(FUKUI (PT)	125 H	Ø-3/10	12,800'	116 VIS GOOD-EXCELL 6 -RAD 3 -UNKNOWN
STK 278 HITACHI (PT)	126	9-10/10	12,600'	122RAD,4-VIS UNOBS
TORI SHIMA (OT)	1	3/10	8,700'	RADAR UNOBS

11. E/A OPPOSITION: NIL

12. FLAK:	CALIBER	INTENSITY	ACCURACY
STK 277-TARGET	HVY7MED-LIGHT	MEAGER	INACCURATE
STK 278-TARGET	MED - HVY	MEAGER	INACCURATE

13. OBSERVATIONS:

OBSEVVATION	TIME	ALTITUDE	LOCATION
POSSIBLE BALLON OR PARACHUTE	191459Z	12,800'	S EDGE OF HITACHI AT 11,000'

14. REMARKS: STRIKE WUUAW WEATHER A/C (IN TARGET AREA FOR APPROXIMATELY 1 1/2 HOURS) EPORTED VERY LARGE FIRES VISIBLE FOR 100 MILES IN CENTER OF TARGET WITH SMOKE TO WELL OVER 15,000'. STRIKE 278 - 1 A/C IS MISSING TO REASONS UNKNOWN. 1 A/C DITCHED SHORTLY AFTER TAKEOFF. 5 SURVIVORS AND 4 DEAD PICKED UP. 2 ARE MISSING. 1 WEATHER A/C ALSO BOMBED PRIMARY TARGET ANDHIS INCLUDED IN PARAGRAPH 10 ONLY.

TNIS RPT THIS REPORT IS FRAGMENTARY AND SUBJECT TO CORRECTION.

END...

ID

TOD:0440Z MS

ROGER V WCR 0440Z

SECRET

DECLASSIFIED
Authority NND760063
By CH NARA Date 7/29/10

SECRET

HEADQUARTERS TWENTIETH AIR FORCE

REPORT OF XXI BOMBER COMMAND

OPERATION NO. S.277 -281 - 19/20 JULY 1945
Date

Targets Bombed: Total A/C Bombing:

277 - FUKUI URBAN AREA

278 - HITACHI URBAN AREA

279 - CHOSI URBAN AREA

280 - OKAZAKI URBAN AREA

281 - NIPPON OIL REFINERY, OSAKA

Time Over Target: 192223 - 200157 Theater Time

Bomb Load: IB'S ON THE URBAN AREAS AND 500 LB GP'S ON NIPPON OIL REFINERY

Results: UNOBSERVED TO GENERAL CONFLAGRATION

Tactics: by individual a/c
NIGHT ATTACK BOTH VISUAL AND RADAR MEANS. PLANNED ALTITUDE OF 10,000 TO 15,400 FT.

A/C Lost or Missing:

Weather:
277 - 0-3/10 cloud cover
278 - 10/10 " "
279 - 3/10 to 9/10 cloud cover
280 - 1/10 to 9/10 cloud cover
281 - 1/10 to 10/10 cloud cover

Fighter Opposition: NIL ON ALL TARGETS

SECRET (Over)

DECLASSIFIED
Authority NND760068
By CM NARA Date 7/29/10

Flak: NIL TO MEAGER

XXXXXXXXXXXXXXXXXXXX

XXXXXXXXXXXXX

Fighter Support: NONE

DECLASSIFIED
Authority NND760063
By CH NARA Date 7/29/10

SECRET

WCR V RGE NR 38 OP OP SECRET

FN-19 22

FROM COMGENAAF 20 GUAM 191715Z

TO COMGENUSASTAF (REAR) WASHINGTON

INFO COMGENUSAST F GUAM COMGENBOMWG 58 ATTN: A-2

COMGENBOMWG 73 ATTN: A-2 COMGENBOMWG 313 ATTN: A-2

COMGENBOMWG 314 ATTN: A-2

AIMCR 5930 SUBJECT: CONSOLIDATED BOMBS AWAY FOR MISSION NO. 281, TARGET NIPPON OIL CO., AMAGASAKI, FLOWN 19-20 JULY 1945.

1. MISSION NO.: 281

SECRET

2. UNIT: 315 WING

3. NO. A/C REPORTING: 11

4. TARGET BOMBED: PRIMARY

5. BOMB METHOD: RADAR

6. CLOUD COVER: 1/10 - 10/10

7. RESULTS:

A. EXCELLENT: 3 A/C

B. GOOD: 2 A/C

SECRET

C. FAIR: 2 A/C

D. POOR: 0

E. UNOBSERVED: 4 A/C

SECRET

8. FIGHTER OPPOSITION: NIL

9. FLAK: MEAGER - MODERATE

10. TIME OVER TARGET FIR T: 191420Z

LAST: 191450Z

11. EARLY RETURNS: 1

12. REMARKS: NONE

THIS REPORT IS FRAGMENTARY AND SUBJECT TO CORRECTION.

END

TOD 191730Z FER

SECRET

END....

TOD: 191817Z DG

ROGER V WCR 191817Z

DECLASSIFIED
Authority NND760063
By CM NARA Date 7/29/10

REC'D COPY

SECRET

WCR V RGE NR 41 OP OP SECRET

FN-19-25

FROM COMGENAAF 20 GUAM 191355Z

TO COMGENUSASTAF (REAR) WASHINGTON

INFO COMGENUSASTAF GUAM COMGENBOMWG 58 ATTN: A-2

COMGENBOMWG 73 ATTN: A-2 COMGENBOMWG 313 ATTN: A-2

COMGENBOMWG 314 ATTN: A-2 COMGENBOMWG 315 ATTN: A-2

AIMCR 5933 SUBJECT: CONSOLIDATED BOMBS AWAY FOR MISSIONSH279 AND 280, ARGETS CHOSHI AND OKAZAKI URBAN AREASGN FLOWN 19-20 JULY 1945.

1.	MIS-SION NOS:	279 H	280
2.	UNITS:	313 WING	314 WING
3.	NO. A/C REPORTING:	5	9
	TARGETS BOMBED:	PRIMARY	PRIMARY
5.	BOMB METHOD:	RADAR	6 RAD, 3 VIS
6.	CLOUD COVER:	3/10 - 9/10	1/70 - 9/10
7.	RESULTS:		
	A. GEN. CONFLAGRATION:	1 A/C	3HJ/C
	B. SEV. LARGE FIRES:	[redacted]-4 A/C	4 A/C
	C. FEW SCATTERED FIRES:	0	1 A/C
K	D. UNOBSERVED:	0	1 A/C
8.	FIGHTER OPPOSITION:	NIL	NIL
9.	FLAK:	1 NIL--3 MGR--1 MOD.	NIL -- MEAGER
10.	TIME OVER TARGET FIRST:	191540Z	191552Z
	LAST:	191624Z	791657Z
11.	EARLY RETURNS:	6	3.
12.	REMARKS:	NONE	NONE

THIS REPORT IS FRAGMENTARY AND SUBJECT TO CORRECTION.

END

L TOD: 191914Z FER

END.....

TOD: ~~191923Z~~ 191928Z DG

SECRET

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Authority NND760063
By CH NARA Date 7/29/10

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OPNS 2

SECRET

WCR V RG NR 39 OP OP SECRET

FN-19-23

FROM COMGENAAF 20 GUAM 191740Z

TO COMGENUSASTAF (REAR) WASHINGTON)

INFO COMGENUSASTAF GUAM COMGENBOMWG 58 ATTN: A-2

COMGENBOMWG 73 ATTN: A-2 COMGENBOMWG 313 ATTN: A-2

COMGENBOMWG 314 ATTN: A-2 COMGENBOMWG 315 ATTN: A-2

AIMCR 5931 SUBJECT: CONSOLIDATED BOMBS AWAY FOR MISSION NOS. 277 AND 278, TARGETS FUKUI AND HITACHI URBAN AREAS, FLOWN 19-20 JULY 1945.

1.	MISSION NOS:	277	278
2.	UNITS:	58 WING	73 LING
3.	NO. A/C REPORTING:	9	8
4.	TARGETS BOMBED:	PRIMARY	PRIMARY
5.	BOMB METHOD:	8 VIS, 1 RAD	RADAR
6.	CLOUD COVER:	0/10 - 3/10	10/10
7.	RESULTS:		
	A. GEN. CONFLAGRATION:	5 A/C	1 A/C
	B. SEV. LARGE FIRES:	2 A.C	1 A/C
	C. FEW SCATTERED FIRES:	0	0
	D. UNOBSERVED:	2 A/C	6 A/C
8.	FIGHTER OPPOSITION:	NIL	NIL
9.	FLAK:	6 NIL--2 MGR--1 MOD	7 NIL--1 MEAGER
10.	TIME OVER TARGET FIRST:	191323Z	191426Z
	LAST:	191545Z	191519Z
11.	EARLY RETURNS:	2	1
12.	REMARKS:	NONE	NONE

THIS REPORT IS FRAGMENTARY AND SUBJECT TO CORRECTION.

TOD 191811Z FER

END.....

TOD: 191825Z DG

ROGER V WCR 191825Z

SECRET

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SPECIFIC SUBJECT	TYPE OF MESSAGE	MESSAGE NO.	DATE AND TIME SENT	DATE AND TIME REC'D	INITIALS
Mission Summary: # 277-278	Telecon	FN20-16		1737 Z	MB
Mission Summary: # 279-280	Telecon	FN20-17		1647 Z	MB
Mission Summary # 281	Telecon	FN20-18		1839 Z	MB
Correction to Mission Sum # 278	"			0401 Z	MB

MISSION REPORT

DECLASSIFIED
Authority NND 760063
By CM NARA Date 7/29/10

SECRET

HEADQUARTERS TWENTIETH AIR FORCE

REPORT OF XXI BOMBER COMMAND

SUMMARY — OPERATION NO. 277 thru 280 — Date 19 July 1945

Targets Bombed: — Total A/C Bombing: 473

277	Fukui Urban Area	126
278	Hitachi Urban	126
279	Choshi Urban	91
280	Okazaki Urban	126
Other Targets		4

Time Over Target: 192320 - 200210 Theater Time

Bomb Load: Dropped: XXXXX
3254.8 Tons (660933 M-47's; 12122 M-47A2's; 58640 M-47A3's; 1394 M-17's; ~~6262~~ 158 T4E4's)

Results: (277 - visual observations indicate generally excellent results (Area burning estimated as one to three square miles.
(278 - unobserved. 279 - Unobserved to excellent - smoke to 10,000 ft. 280 - Large fires reported in South Nagoya visible for 100 miles

Tactics: Night attack by individual a/c - visual and radar means from an altitude of 10,500 to 15,000 ft.

A/C Lost or Missing: 278 - 1 a/c ditched 7 miles east of Saipan - shortly after t/o
1 a/c missing to unknown reasons.

Weather:
277 - no low clouds - visibility 12 miles
278 - 9 - 10/10 low clouds - visibility 5 - 10 miles in haze.
279 - 10/10 low clouds --280 - 9 - 10/10 low clouds-Visib. 10 miles.

Fighter Opposition:
277 - 3 E/A sighted-no attacks
278 - 1 E/A sighted-no attacks
279 - 2 E/A sighted-no attacks
280 - 3 E/A sighted-no attacks

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Flak: All missions - heavy to medium, meagre, inaccurate.

Claims: Nil on all missions.

Observations: 278 - 4 S/L's observed in target area. Oval shaped balloon about 25 feet in diameter at about 11,000 feet.

279 - 2 - 6 grount-toair rockets observed below a/c/

280 - 4 S/L's in target area - 2 a/c observed burning red rockets.

Fighter Support: None

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WCR V RGE NR 2 OP OP SECRET

FN -22-29

FROM: COMGENAAF 20 GUAM 2-8142Z
TO : COMGENUSASTAF GUAM
INFO: COMGENUSASTAF (REAR) WASH (OP) BOMWG'S 58-313-314-315

ATTN: A-2 (TO GROUPS) (ROUTINE)

AIMCG 6024 SUBJECT: CORRECTION TO MISSION SUMMARY, STK (278) JWUIN TARGET TO HITACHI FLOWN 19-20 JULY 45.

1. 73RD WING - STK 278 CORRECTED AS FOLLOWS:

A. PAR 4: (BOMBS AIRBORNE ADD 40 X E36 FUSED TO OPEN 5,000 FT@ ABOVE TARGET

B. IAR 5: (DISPOSITION OF BOMBS A. PRIMARY TARGET: ADD 40 X E36

C. PART B - PAR 5 (REMARKS); SHOULD READ 1 WIND RUN A/C DROPPED 84 X 47A2 AND 20 X E46 BOMBS ON PRIMARY ETC.

END...

TOD. 220226Z HHO

ROGER V WCR

SECRET

DISTRIBUTION

ACTION:	C/S	DC/S Opr	DC/S TM&E	DC/S P&A	A-1	A-2	A-3 Tng	A-3 OC&R	A-4		
	A-5 Plans	Air Insp	PRO	Comm.	Op Anal	Stat Con	Anti-Acft	FSC			
	A.G.	Surg									
INFORMATION:	C/S	DC/S Opr	DC/S TM&E	DC/S P&A	A-1	A-2	A-3 Tng	A-3 OC&R	A-4		
	A-5 Plans	Air Insp	PRO	Comm.	Op Anal	Stat Con	Anti-Acft	FSC			
	A.G.	Surg									

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Authority NND760063
By CH NARA Date 7/29/10

WCR V RGE NR 4 OP OP S E C R E T

SECRET

FROM: COMGENAAF 20 GUAM 210247Z

OPR

TO : COMGENUSASTAF GUAM

INFO: COMGENUSASTAF (REAR) WASHINGTON

AIMCR 5993 SUBJECT: CORRECTION TO MISSION SUMMARY, MISSION 278, TARGET HITACHI URBAN AREA, FLOWN 19 JULY 1945.

1. UNDER PART B, PARA 7, SHOULD READ: IN ADDITION TO MAIN FORCE, 2 WIND RUN A/C DROPPED 30 X E-36, 84 ~~XM~~ X M-47A2, AND 20X E-46 BOMBS ON PRIMARY BY RADAR FROM 12,600 FT AT 191425Z WITH UNOBSERVED RESULTS.

2 SUPERDUMBOS AIRBORNE-NEGATIVE REPORT.

TOD:210317Z TAS

END...

SECRET

TOD: 0401Z KRJ

OGER 0401Z WCR

DISTRIBUTION

ACTION:	C/S	DC/S Opr	DC/S TM&E	DC/S P&A	A-1	A-2	A-3 Tng	A-3 OC&R	A-4		
	A-5	Plans	Air Insp	PRO	Comm.	Op Anal	Stat Con	Anti-Acft	FSO		
	A.C.	Surg									
INFORMATION:	C/S	DC/S Opr	DC/S TM&E	DC/S P&A	A-1	A-2	A-3 Tng	A-3 OC&R	A-4		
	A-5	Plans	Air Insp	PRO	Comm.	Op Anal	Stat Con	Anti-Acft	FSO		
	A.C.	Surg									

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By CM NARA Date 7/29/10

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OPR

WCR V RGE NR 39 (OP OP SECRET) 20 JULY 45

TELECON MESSAGE NF-.
::::: FN-20-18

FROM COMGENAAF 20 GUAM 201749Z

TO COMGENUSASTAF (REAR) WASH

INFO COMGENUSASTAF GUAM (OP)

AIMCR 5976

SUBJECT: MISSION SUMMARY FOR MISSION NO. 281 TARGET NIPPON OIL REF., AGAGASAKI FLOWN 19-20 JULY 45.

1. UNIT: 315TH

2. TAKE OFF: FIRST 190730Z. LAST: 190814Z.

3. A/C AIRBORNE: 84

4. BOMBS AIRBORNE: A- TYPE AND NO: M-64 2482 ALL FUSED .10 NOSE AND .025 TAIL. M-43 - 317

5. BOMB DISPOSITION:

A. TARGET	NO A/C	M-64	M-43
PRIMARY:	83	2446	~~313~~ 303
B. JETTI			

~~//////. CCN IN LAST LINE THE LASTGRP SHUD READ 303 RPT 303~~

B. JETTISONED:	1	36	14

6. A/C NOT BOMBING: 1 MECHANICAL

7. AVG . BOMB ALT: PRIMARY 15,700 FT.

8. TIME BOMBS AWAY: PRIMARY: 1ST: 191404Z. LAST 191500Z.

9. BOMB METHOD: 83 RADAR.

10. TIME OF RETURN: FIRST: 192125Z. LAST 192230Z.

11. CLAIMS: NIL

12. CASUALTIES: NI

SECRET

13. A/C LOST : NIL

14. A/C DAMAGED: 1 MINOR.

PART B NARRATIVE:

1. AIR OPPOSITION: 8-12 E-A SIGHTED - NO ATTACKS.

2. FLAK: LOCATION CALIBER INTENSITY ACCURACY

PRIMARY TARGET HVY-MED MGR-MOD INACCURATE

INTENSE S/L ACTIVITY IN TARGET AREA.

3. WEATHER: BASES AT TAKE OFF: BROKEN LOW CLOUDS AND BROKEN TO OVERCAST MIDDLE CLOUDS WITH LIGHT TO MODERATE SHOWERS.

ROUTE: BROKEN LOW CLOUDS WITH 4/10 BUILD UP TO 15,000 FT AND SCATTERED MIDDLE CLOUDS. LIGHT TO MODERATE SHOWERS AND MODERATE TURBULENCE IN BUILD UPS TO IWO JIMA. FROM IWO JIMA ~~TF)88252::-8/1786';~~ ~~FKOQJKD JVCMHW~~ TO TARGET THERE WERE A FEW BUILD UPS AND ~~70 ,8~~ SCATTERED SHOWERS TO THE NORTH OF IWO JIMA THEN BECOMING SCATTERED LOW CLOUDS WITH OCCASSIONAL PATCHES OF SCATTERED HIGH CLOUDS.

TARGET: 7/10 LOW CLOUDS, TOP 6000 FT; 5-8/10 MIDDLE CLOUDS, BASE 15,000 FT, TOPS 16,000 FT; SCATTERED HIGH CLOUDS AT 28,000 FT. WINDS

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//////// . ~~CCN IN LAST LINE THE LASTGRP SHUD READ 303 RPT~~

B. JETTISONED: 1 36 14

6. A/C NOT BOMBING: 1 MECHANICAL

7. AVG . BOMB ALT: PRIMARY 15,700 FT.

8. TIME BOMBS AWAY: PRIMARY: 1ST: 191404Z. LAST 191500Z.

9. BOMB METHOD: 83 RADAR.

10. TIME OF RETURN: FIRST: 192125Z. LAST 192230Z.

11. CLAIMS: NIL

12. CASUALTIES: NI

13. A/C LOST : NIL

14. A/C DAMAGED: 1 MINOR.

SECRET

PART B NARRATIVE:
~~N~~ 1. AIR OPPOSITION: 8-12 E-A SIGHTED - NO ATTACKS.

2. FLAK: LOCATION CALIBER INTENSITY ACCURACY

PRIMARY TARGET HVY-MED MGR-MOD INACCURATE

INTENSE S/L ACTIVITY IN TARGET AREA.

3. WEATHER: BASES AT TAKE OFF: BROKEN LOW CLOUDS AND BROKEN TO OVERCAST MIDDLE CLOUDS WITH LIGHT TO MODERATE SHOWERS.

ROUTE: BROKEN LOW CLOUDS WITH 4/10 BUILD UP TO 15,000 FT AND SCATTERED MIDDLE CLOUDS. LIGHT TO MODERATE SHOWERS AND MODERATE TURBULENCE IN BUILD UPS TO IWO JIMA. FROM IWO JIMA ~~TF)88252::-8/1/86';~~ TO TARGET THERE WERE A FEW ~~FKOQJKD JVCMHW~~ BUILD UPS AND ~~70 -,$~~ SCATTERED SHOWERS TO THE NORTH OF IWO JIMA THEN BECOMING SCATTERED LOW CLOUDS WITH OCCASSIONAL PATCHES OF SCATTERED HIGH CLOUDS.

TARGET: 7/10 LOW CLOUDS, TOP 6000 FT; 5-8/10 MIDDLE CLOUDS, BASE 15,000 FT, TOPS 16,000 FT; SCATTERED HIGH CLOUDS AT 28,000 FT. WINDS AT 15,000 FT WERE 260 DEG AT 130 KNOTS.

BASE ON RETURN: BROKEN LOW , MIDDLE AND HIGH CLOUDS WITH MODERATE SHOWE REDUCING VISIBILITY TO ONE MILE.

4. AIR SEA RESCUE: NO EMERGENCIES.

5. FIGHTER ESCORT: NONE

6. BOMBING RESULTS: UNOBSERVED.

7. REMARKS: 2 WIND A/C, NOT INCLUDED IN ABOVE TOTALS, WERE AIRBORNE AT 190650Z AND 190658Z. THEY DROPPED 64 X M64 GP BOMBS ON BRIEFED TARGET, SHIMOTSU REFINERY, WAKAYAMA AT 191350Z BY RADAR FROM 15-15,500 FT WITH UNOBSERVED RESULTS. BOTH A/C RETURNED TO HOME BASE (THESE 2 A/C WERE INCLUDED UNDER A/C AIRBORNE IN PREVIOUS REPORTS AND HAVE BEEN DEDUCTED IN ORDER TO STANDARDIZE REPORTING MISC A/C ON MAJOR STRIKE.)

THIS REPORT SUBJECT TO CORRECTION AND NOT TO BE USED FOR RECORD PURPOSE.

END

TOD 1820Z RB
I END:
VTOD: 1839Z VF

SECRET

611.5
75.7
687.2

~~PSQQEGW~~
~~MUGWYDEZCI AZB WWIO~~
NNDQANA

~~ZHWKUAPA EOOJCYNAGO BRLHRPWAUUZUPE~~

~~SET T PFWOM :(;; 77. 212 SW~~
~~NOW IS THD TIME FOR ALL GOOD MEN TO COME TO THE AID OF THIR WOMEN L~~

NOW NITZ FOR ALL GOOD

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Authority NND 760063
By CH NARA Date 7/29/10

SECRET REC'D COPY OPNS

WCR V RGE NR 37 (SECRET OP OP) 20 JULY 45

TELECON MESSAGE FN-20-17

FROM: COMGENAAF 20 GUAM 201555Z
TO : COMGENUSASTAF (REAR) WZSHINGTON
INFO: COMGENUSASTAF GUAM (OP BOMW

AIMCR 5975
SUBJECT: MISSION SUMMARY FOR MISSION NO. 279-280 TARGET CHOSHI AND OKAZAKI URBAN AREAS FLOWN 19-20 JULY 45

MISSION		279	280
1. UNITS:	20 AF	313TH	314TH
2. TAKE OFF: FIRST:	190900Z	190901Z	191022Z
LAST:	191022Z	190958Z	191022Z
3. A/C AIRBORNE:	228	97	~~QEQ~~ 131
4. BOMBS AIRBORNE:			
A. TYPE AND NO:			
E-46	573	3219	2520 11768
M-47 A-2	12504	736	QQUYI
M-47A3	1472	1472	0
T4E4	170 ~~0~~ 51	170 0	0 ~~87 8 8 46~~ 51
M46 M17A1	120	0	120

B. FUSINGS: E-46 TO OPEN 5,000 FT ABOVE TARGET AND NO NOSE -T-73 27.5 AND 28.5 TAIL

M247'S INST. NOSE. T4E4 TO OPEN 1,000 FT BELOW A/C. M-46 M111 A-2 31-32 SEC NOSE - NO TAIL. M17A1 T-55 E1 22 SEC NOSE - NO TAIL.

5. BOMB DISPPSITION:

SECRET

TGT &

TYPE BOMB	NO.A/C	E46	M47A2	M47A3	T4E4	M17	M46
STK 279 CHOSHI	91	2982	736	1466	158	0	0
STK 280 OKAZAKI	126	2476	11202	0	0	114	50
OPP TGT-NAKARI	1	0	184	0	0	0	0
TOTALS:	218	5458	12122	1466	158	114	50

B. JETTISONED:

TYPE BOMBS	NO. A/C	E-46	M48A2	M47A3	T4E4	M17	M46
STK 279	6	237	0	6	12	0	0
STK 280	3	44	382	0	0	6	1
TOTALS:	9	281	382	6	12	6	1

6. A/C NOT BOMBING	20 AF	313TH	314TH
	10	6	4
A. MECHANICAL	9	6	3
B. OTHER	1	0	1 (WIND A/C)

7. AVG. BOMB ALT:

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31-32 SEC NOSE - NO TAIL. M17A1 T-55 E1 22 SEC NOSE - NO TAIL.

5. BOMB DISPPSITION: SECRET

TGT & TYPE BOMB	NO.A/C	E46	M47A2	M47A3	T4E4	M17	M46
STK 279 CHOSHI	91	2982	736	1466	158	Ø	Ø
STK 280 OKAZAKI	126	2476	11202	Ø	Ø	114	50
OPP TGT-NAKARI	1	Ø	184	Ø	Ø	Ø	Ø
TOTALS:	218	5458	12122	1466	158	114	50

B. JETTISONED:

TYPE BOMBS	NO. A/C	E-46	M48A2	M47A3	T4E4	M17	M46
STK 279	6	237	Ø	6	12	Ø	Ø
STK 280	3	44	382	Ø	Ø	6	1
TOTALS:	9	281	382	6	12	6	1

6. A/C NOT BOMBING	20 AF	313TH	314TH
	10	6	4
A. MECHANICAL	9	6	3
B. [redacted]			
B. [redacted] OTHER	1	Ø	1 (WIND A/C)

7. AVG. BOMB ALT:			
A. PRIMARY	12695	10500	14890
B. OTHERS:	8600	--	8600

8. TIME BOMBS AWAY:			
FIRST:	191531Z	191531Z	191552Z
LAST:	191710Z	191652Z	191710Z
B.9 OTHERS:	191656Z	111	
		------	191656Z

9. BOMB METHOD: SECRET

A. PRIMARY:	59V-158R	1V-90R	58V-68R
B. OTHERS:	RADAR	-----	RADAR

10. TIME RETURN:

Ø FIRST:	192109Z	192109Z	192213Z [redacted]
LAST:	191710Z	191652Z	191910Z
~~40Z~~ ~~1923552~~ ~~200040Z~~			

11. CLAIMS:	NIL	NIL	NIL
12. CASULATIES:	1	Ø	1
A. KILLED$:	Ø	Ø	Ø
B. WOUNDED:	1	Ø	1
C. MISSING:	Ø	Ø	Ø
13. NO. A/C LOST:	NONE	Ø	Ø
14. A/C DAMAGED:	3	2	1
A. MAJOR	Ø	Ø	Ø
B. MINOR	3	2	1

PART B NARRATIVE:

---

1. AIR OPPSIT ON: STK 279 P. T.: 2 E/A SIGHTED - NO ATTACKS.
STK 280 P. T.: 3 E/A - NO ATTACKS.

2. FLAK: LOCATION	CALIBER	INTENSITY	ACCURACY
STK 279 P.T.	HVY-MED-AW	MEZGER	INACCURATE

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10. TIME RETURN:

Ø FIRST:	192109Z	192109Z	192213Z
LAST:	~~403Z~~ 191710Z	~~1923557~~ 191652Z	~~2000407~~ 191910Z
11. CLAIMS:	NIL	NIL	NIL
12. CASULATIES:	1	Ø	1
A. KILLED$:	Ø	Ø	Ø
B. WOUNDED:	1	Ø	1
C. MISSING:	Ø	Ø	Ø
13. NO. A/C LOST:	NONE	Ø	Ø
14. A/C DAMAGED:	3	2	1
A. MAJOR	Ø	Ø	Ø
B. MINOR	3	2	1

PART B NARRATIVE:

---

1. AIR OPPSIT ON: STK 279 P. T.: 2 E/A SIGHTED - NO ATTACKS.
STK 280 P. T.: 3 E/A - NO ATTACKS.

2. FLAK: LOCATION CALIBER INTENSITY ACCURACY
STK 279 P.T. HVY-MED-AW MEZGER INACCURATE
2-6 GROUND TO AIR ROCKETS OBSERVED BELOW A/C.
STK 280 P.T. HVY-MED-AQ MEAGER INACCURATE
4 S/L'S IN TGT AREA. 2 A/C OBSERVED BURNING RED ROCKETS

3. WEATHER: SE OUR [redacted] AIMCR 5974

SECRET

4. AIR SEA RESCUE: NO EMERGENCIES.

5. FIGHTER ESCORT: NONE

6. BOMBING RESULTS: STK 279: UNOBSERVED TO EXCELLENT RESULTS REPORTED BY CREWS. SMOKE TO 10,000 FT.
STRIKE 280: MAJORITY OF CREWS REPORTED LARGE FIRES IN SOUT NAGOYA VISIBLE FOR 100 MILES.

7. REMARKS: STK 279: INADDITION TO MAIN FORCE AIRBORNE 2 RCM AND 1 WIND RUN A/C PARTICIPATED IN MISSION.
STK 280: TOTAL A/C AIRBORNE INCLUDES ONE RADAR WIND RUN A/C WHICH CARRIED NO BOMBS. ONE SUPERDUMBO NOT INCLUDED.
THIS REPORT SUBJECT TO CORRECTION AND NOT TO BE USED FOR RECORD PURPOSES.

END

TOD: 1633Z WL

END:

SECRET

TOD: 1647Z VF

ROGER 1647Z WCR

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By CH NARA Date 7/29/10

SAUE

QBA)XSWEKWCR V RGE NR 3 (SECRET- OP OP) 20 JUL

SECRET REC'D COPY

TELECON MESSAGE FN-12

:::::: FN-20-16

OPNS

FROM COMGENAAF 20 GUAM 201515Z

TO COMGENUSASTAF (REAR) WASHINGTON

INFOCOMGENUSASTAF GUAM

AIMCR 5974 SUBJECT: MISSION SUMMARY FOR MISSION NO. 277 - 278 TARGET FUKUI AND HITACHI URBAN AREAS FLOWN 19-20 JULY 45.

MISSION		277	278
1.	UNITS:	20 AF	58TH	73RD
2.	TAKE OFF:			
	FIRST	190700Z	190700Z	190730Z
	LAST:	190847Z	190843Z	190847Z
3.	A/C AIRBORNE:	260	130	130
4.	BOMBS AIRBORNE:			
	A. TYPE AND NO.:			
	M47 -	17382	5635	11747
	PHOSPHOROUS M47	31	31	0
	E-46	5111	3875	1236
	M-17	1320	0	1320
	M-46	44	0	44
	B. FUSINGS:	M47'S INST. NOSE.		
		M17 AND E46 TO OPEN 5,000 FT ABOVE TGT.		
		M46, 3-4-5-6000 FT ABOVE TARGET.		

SECRET

5. BOMB DISPOSITION:						
A. TGT AND TYPE BOMB	NO.A/C	M-47	M-47 PHOS	E-46	M-17	M-46
STK 277: FUKUI	126	5451	30	3751	0	0
OPP TGT SETO	1	0	0	40	0	0
OPP UJI YAMADA	1	0	0	40	0	0
STK 278: HITACHI	126	11374	0	1176	1280	41
OPP TGT TORI SHIMA	1	92	0	20	0	0
TOTALS:	255	16917	30	5027	1280	41
B. JETTISONED:						
TYPE BOMBS:	NO.A/C	M-47	M-47 PHOS	E-46	M-17	M-46
STK 277	2	184	1	43	0	0
STK 278	3	266	0	40	40	3
TOTALS:	5	450	1	83	40	3
C. RETURNED:						
STK 277	1	0	0	1	0	0

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By CH NARA Date 7/29/10

A. TGT AND TYPE BOMB	NO.A/C	M-47	M-47 PHOS	E-46	M-17	M-[illegible]
STK 277: FUKUI	126	5451	30	3751	0	0
OPP TGT SETO	1	0	0	40	0	0
OPP UJI YAMADA	1	0	0	40	0	0
STK 278: HITACHI	126	11374	0	1176	1280	41
OPP TGT TORI SHIMA	1	92	0	20	0	0
TOTALS:	255	16917	30	5027	1280	41

B. JETTISONED: TYPE BOMBS:	NO.A/C	M-47	M-47 PHOS	E-46	M-17	M-[illegible]
STK 277	2	184	1	43	0	0
STK 278	3	266	0	40	40	3
TOTALS:	5	450	[illegible]/	83	40	3

C. RETURNED:						
STK 277	1	0	0	1	0	0
STK 278	1	15	0	0	0	0
TOTALS:	2	15	0	1	0	0

D. UNACCOUNTD: NONE FOR BOTH STRIKES.

6. A/N NOT BOMBING: A/F 20 58TH WG 73RD WG

	5	2	3
A. MECHANICAL	4	2	2
B. OTHER		0	1

7. AVG. BOOB ALTITUDE:			
A. PRIMARY:	12,700	12,800	12,600
B. OTHERS:	8,700	UNKNOWN	8,700
8. TIME BOMBS AWAY:			
A. PRIMARY: FIRST:	191420Z	191424Z	191420Z
LAST:	191545Z	191545Z	191545Z
B. OTHERS: FIRST:	191250Z	UNKNOWN	191250Z
9. BOMB METHOD:			
A. PRIMARY:	118V-134R	112V-14R	6V-120R
~~B. ATHERS: ((DELETE THIS LINE)~~			
B. OTHERS:	RADAR	RADAR	RADAR
10. TIME RETURN: FIRST:	192046Z	192111Z	192046Z
LAST:	192310Z	192310Z	192302Z
11. CLAIMS:	NIL	NIL	NIL
12. CASUALTIES:	25	3	22
A. KILLED:	5	0	5
B. WOUNDED:	8	3	5
C. MISSING:	12	0	[illegible]12
13. NO. A/C LOST:	2	NIL	2
A. TO DITCHING:	1	0	1
B. UNKNOWN:	1	0	1
14. A/C DAMAGED:	NIL	NIL	NIL

SECRET

PART B: NARRATIVE

---- -- ---------

1. AIR OPPOSITION: STK 277: 3 E/A SIGHTED A NO ATTACKS.
STK 278: 1 E/A SIGHTED - NO ATTACKS.

2. FLAK:

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B. UNKNOWN:	1	Ø	1
14. A/C DAMAGED:	NIL	NIL	NIL

PART B: NARRATIVE

1. AIR OPPOSITION: STK 277: 3 E/A SIGHTED A NO ATTACKS.
STK 278: 1 E/A SIGHTED - NO ATTACKS.

2. FLAK:

LOCATION	CALIBER	INTENSITY	ACCURACY
STK 277: P.T.	HVY-MED-AW	MEAGE	INACCURATE
STK 278: P.T.	HVY-MED	MEAGER	INACCURATE

SECRET

~~4 S/L WERE KM~~
~~NVX XC XXR KUTARGET AREA. OVAL SHA~~
~~SET THIS 478/111 RPT 478/111 SW~~

4 S/L WERE OBSERVED IN TARGET AREA. OVAL SHAPED BALLOON, ABOUT 25 FT IN DIAMETER, AT ABOUT 11,000 FT.

3. WEATHER: BASES AT TAKE OFF; BROKEN LOW CLOUDS AND OVERCAST MIDDLE CLOUDS WITH SHOWERS REDUCING VISIBILITY TO 6 MILES.
ROUTE: BROKEN LOW CLOUDS WITH SOME BUILD UPS TO 15,000 TO 25,000 FT; OVERCAST MIDDLE CLOUDS AND SHOWERS REDUCING CEILINGS TO 1000 FT TO 17 N. FROM 17 N TO 28 N. THERE WERE SCATTERED LOW CLOUDS WITH PATCHY MIDDLE AND HIGH CLOUDS. FROM 27 N TO 28 N THERE WAS EVIDENCE OF A VERY WEAK FRONT WITH BROKEN LOW CLOUDS AND OVERCAST HIGH CLOUDS WITH SCATTERED TO BROKEN MIDDLE CLOUDS. FROM 28 N TO 33 N THERE WERE SCATTERED LOW AND HIGH CLOUDS. FROM 33 N TO THE TARGET AREAS THERE WERE SCATTERED LOW AND MIDDLE CLOUDS BECOMING OVERCAST AT THE COAST. MIDDLE CLOUDS IN THIS SECTOR WERE IN LAYERS BETWEEN 13,000 AND 17,000 FT.
TARGETS: HITACHI: 9-10/10 LOW CLOUDS, TOPS 7-8000 FT; 8-9/10 MIDDLE CLOUDS IN LAYERS BETWEEN 13000 AND 17000 FT; VISIBILITY 5-10 MILES IN HAZE. WINDS AT 12000 FT WERE REPORTED AT 315 DEGREES AT 17 KTS.
OKAZAKI: 9-10/10 LOW CLOUDS, TOPS 5000 FT (LARGE HOLE OVER TARGET PROBABLY DUE TO FIRES) 2/10 MIDDLE CLOUDS. BASE 16,000 FT; VISIBILITY 10 MILES. WINDS AT 15,000 FT WERE 280 DEG AT 28 KNOTS.
FUKUI: STRATUS CLOUDS WERE SEEN IN THE VALLEY ALONG THE RIVER, OTHERWISE NO LOW CLOUDS REPORTED; 6/10 MIDDLE CLOUDS, BASE 16,000 FT; VISIBILITY 12 MILES. WINDS AT 13,000 FT WERE 265 DG AT 22 KNOTS.
CHOSHI: 10/10 LOW CLOUDS BASE TOPS 4,000 FT; 10/10 MIDDLE CLOUDS, BASE 13,000 FT TOP 17,000 FT. WINDS AT 11,000 FT WERE 300 DEG AT 20 KNOTS.
BASES ON RETURN: SCATTERED LOW CLOUDS AND BROKEN TO OVERCAST MIDDLE CLOUDS WITH SCATTERED LIGHT SHOWERS.

4. AIR SEA RESCUE: 73RD BOM WGS 52V961 DITCHED 7 MILES EAST OF SAIPAN AFTER IT LOST 2 ENGINES SHORTLY AFTER TAKEOFF. 5 SURVIVORS ALIVE, 4 DEAD AND 2 MISSING WITH SEARCH CONTINUING. 11V953 MISSING NOT HEARD FROM. ALL OTHER PLANES THIS MISSION RETURNED SAFELY.

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13,000 AND 17,000 FT.

TARGETS: HITACHI: 9-10/10 LOW CLOUDS, TOPS 7-800[illegible] MIDDLE CLOUDS IN LAYERS BETWEEN 13000 AND 17000 FT; VISIBILITY 5-10 MILES IN HAZE. WINDS AT 12000 FT WERE REPORTED AT 315 DEGREES AT 17 KTS.

OKAZAKI: 9-10/10 LOW CLOUDS, TOPS 5000 FT (LARGE HOLE OVER TARGET PROBABLY DUE TO FIRES) 2/10 MIDDLE CLOUDS. BASE 16,000 FT; VISIBILITY 10 MILES. WINDS AT 15,000 FT WERE 280 DEG AT 28 KNOTS.

FUKUI: STRATUS CLOUDS WERE SEEN IN THE VALLEY ALONG THE RIVER, OTHERWISE NO LOW CLOUDS REPORTED; 6/10 MIDDLE CLOUDS, BASE 16,000 FT; VISIBILITY 12 MILES. WINDS AT 13,000 FT WERE 265 DG AT 22 KNOTS.

CHOSHI: 10/10 LOW CLOUDS TOPS 4,000 FT; 10/10 MIDDLE CLOUDS, BASE 13,000 FT TOP 17,000 FT. WINDS AT 11,000 FT WERE 300 DEG AT 20 KNOTS.

BASES ON RETURN: SCATTERED LOW CLOUDS AND BROKEN TO OVERCAST MIDDLE CLOUDS WITH SCATTERED LIGHT SHOWERS.

4. AIR SEA RESCUE: 73RD BOM WGS 52V961 DITCHED 7 MILES EAST OF SAIPAN AFTER IT LOST 2 ENGINES SHORTLY AFTER TAKEOFF. 5 SURVIVORS ALIVE, 4 DEAD AND 2 MISSING WITH SEARCH CONTINUING. 11V953 MISSING NOT HEARD FROM. ALL OTHER PLANES THIS MISSION RETURNED SAFELY.

5. FIGHTER ESCORT: NONE.

6. BOMBING RESULTS: STK 277: VISUAL OBSERVATION INDICATES GENERALLY EXCELLENT RESULTS. AREA BURNING ESTIMATED AS ONE TO THREE SQUARE MILES.

STK 278: RESULTS UNOBSERVED.

SECRET

SECRET REC'D COPY

7. REMARKS: STK 277: IN ADDITION TO MAIN FORCE AIRBORNE 2 WIND RUN A/C ORBITED BRIEFED ROUTE AND TRANSMITTED WIND DATA TO STRIKE A/C. ONE OF THESE A/C DROPPED 17 T-3 LEAFLET BOMBS FROM 16,400 FT AT 3430N - 13745E AT 191555Z.

STK 278: IN ADDITION TO MAIN FORCE AIRBORNE ~~1~~ 2 WIND RUN A/C DROPPED ~~40~~ 30 X E36 1 BOMBS (84 x M-47A2 and 20 x E46) ON PRIMARY BY RADAR FROM 12,600 FT AT 191425Z WITH UNOBSERVED RESULTS. 2 SUPERDUMBOS AIRBORNE - NEGATIVE REPORT.

THIS REPORT SUBJECT TO CORRECTION AND NOT TO BE USED FOR RECORD PURPOSES

END

TOD 201705Z FER

END:

TOD: 1737Z VF

ROGER 1737Z WCR

SECRET

MIN ON CORRECTIONS

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PRESS RELEASES

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By CH NARA Date 7/29/10

SPECIFIC SUBJECT	TYPE OF MESSAGE	MESSAGE NO.	DATE AND TIME SENT	DATE AND TIME REC'D	INITIALS
Photo Interpretation	Telecon	FN26-10		26 July	MB
Corrections to PI	"	FN26-6		26 July	MB

PHOTO
STRIKE

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Authority NND 760063
By CM NARA Date 7/29/10

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HQ TWENTIETH AIR FORCE
WASHINGTON 25, D. C.

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SECTION	INITIALS	COPY NO.
CHIEF OF STAFF		2
DC/S OPRS	MB.	DIST. BY
DC/S P&A		FJB 6919
DC/S TME		TYPED BY
A.G.		emd

TELECON MSG NO.	SUBJECT	DATE
FN-26-6	CORRECTION TO PHOTO INTERPRETATION FOR 3 PRM 354.	26 July 1945

TO:	INFO:	FROM:
COMGENUSASTAF GUAM	COMGENUSASTAF (REAR)	COMGENAAF 20 GUAM

AIMCR 6211

Damage to Chosi: Total damage to date should read 0.483 square miles, not 0.408. Percent of built up area is 43.1 and not 36.4.

END

TOD 0647Z.

Cea

Combat Opns

DIST | ACTION: None | INFO: C/S - DC/OPRS - DC/S P&A - DC/S TME (2); A-2 (16); A-3 OC&R (7); A-5 Plans (2); OA; Stat Con (2); AA; A-2 Collection Division

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5-33, AF (REV 1 APR 45)

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By CM NARA Date 7/29/10

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SECTION	INITIALS	COPY NO.
CHIEF OF STAFF		2
DC/S OPRS		DIST. BY
DC/S P&A		JRT 6819
DC/S TME		TYPED BY
A.G.		vl

TELECON MSG NO.	SUBJECT	DATE
FN-26-10	Photo Interpretation 3 PR 5M 355 flown 25 July 1945	26 July 1945

TO:	INFO:	FROM:
COMGENUSASTAF	COMGENUSASTAF ~~ASAR~~	COMGENAAF 20

AIMCR 6222
260832Z

Mean time of photography: 0240Z. Altitude: 30,000 ft.
This tentative report is subject to change after a more detailed study and is to be considered strictly as advance information.

Damage to Hitachi-90.14-urban (36/35N - 140/39E)
20 Air Force mission 278, 19-20 July 1945. 73rd Wing built-up area:
sq. mi. total - 1.38; sq. mi destroyed - .88 percent destroyed - 64.5 planned target area - 1.2 sq. mi percent destroyed - 73.3
Total damage to date - 1.08 sq. mi. percent of built-up area - 78.2
Targets damaged by current strike: 3 numbered, 7 other.
Quality and limitations of photos: Complete 24", good quality.
The remaining undamaged portions of the virtually destroyed city are small areas around the RR yards, a small area SW of target 1476, one E of the RR yards, and another near the Hitachi Gas Works. Old damage of .2 sq. mi. Resulting from the strike on target 1476, coupled with the .88 sq. mi. of new damage, brings the current total to 1.08 sq. mi. of the total about .1 sq. mi. of damage is outside the built-up area. The undamaged areas are located as follows on XXI BomCom litho-mosaic.
Target 90.14-1476. Hitachi Engineering Works, Kaigan Plant:
Area bounded by: 135111, 137111, 128125, 124122, 135111
Area bounded by: 111095, 124105, 125105, 133110, 130112,
123107, 119108, 119104, 114100, 111105, 111095,
Area bounded by: 094080, 105081, 110090, 094080,
Area bounded by: 083072, 094077, 093083, 082095, 080194, 088080, 083072
Part of area within target 812 - not damaged
Part of area within target 2098 - not damaged. Dame to targets is:
1476 - Hitachi Engineering Works, Kaigan Plant - 96.8 percent (old damage)
812 - Hitachi Copper Refinery about 15 percent damaged
2098 - Hitachi Engineering Works, Densen Plant - about 30 percent damaged
2099 - Hitachi Engineering Works, Yamato Plant 100 percent damaged.
RR Yard shows minor damage
4 small unidentified industries - 100 percent destroyed.
2100 - Hitachi Engineering Works, Taga Plant, SW of Hitachi, was damaged as a result of a U. S. Navy strike.

ACTION COPY

DIST	ACTION	INFO	C/S - DC/OPRS - DC/S P&A - DC/S TME

Combat Opns

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HQ TWENTIETH AIR FORCE
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DC/S P&A		
DC/S TME		TYPED BY
A.G.		

TELECON MSG NO.	SUBJECT	DATE
FN-26-10	Continued	

TO:	INFO:	FROM:

Target 90.17-128 Kawasaki Petroleum Center

20 Air Force Mission 267, 12-13 July 315th Wing
Original roof area: 741,000 sq. ft.
Current damage: 204,800 sq. ft. 27.6 percent
Total damage to date: 204,800 sq. ft. 26.7
Original tank storage: 1,334,000 bbls. (42 USG)
Current damage: 61,400 bbls, - 4.6 percent
Total damage to date: 61,400 bbls. - 4.6 percent
The greater part of the damage resulting from mission 267 was inflicted to the warehouse area of the Standard Vacuum Oil Co. and the Rising Sun Petroleum Co, and to the refining area of the Nippon Oil Co. (ref. A). Damage to the target area is widely scattered, with almost no damage to the tank storage areas.
The following list of damaged building is based on the numbered installations in reference A:
Office (1): Warehouses (2,3,4,810, 11, 12, 19, 20, 25, 78, 80, 82, 91, 92, 94): Tanks (14, 29, 111, 112): Pipe stills (28): Still and furnace (31,32): Treating Plant (45); Primary distillation (63, 64); pump house and 2 small tanks (67); small tanks (69,73); probable offices (97); probable pump house (98); probable canning or packing (100, 101, 102); in addition to the above, the following adjacent targets (ref B) were damaged as result of the same strike:

90.17- 51 Asano Iron Works
90.17- 133 Shibaura Engineering Works
90.17-493 Tokyo Steam Power Plant
90.17- 1343 Ishikawajima Motor Co.
90.17- 2038 Army Oil Storage
90.17- 2038G Japan Casting Co
90.17- 2038I Tokunaga Glass Co.
90.17- 2038J Mitsubishi Chemical Equipment Co.
90.17- 2038K Nisshin Flour Mill
Reference A. AC/AS Intelligence report No. F/A-33, 17 January 1945
B. J. T. G. 90.17-3605 P-4, 28 January 1945

Damage to Hiratsuka - 90.17 - urban

20 Air Force mission 274, 16-17 July 1945 314th Wing
Built-up area: sq. mi. total - 2.48: sq. mi. destroyed - 1.04. Percent destroyed: 41.9

DIST ACTION | INFO: C/S - DC/OPRS - DC/S P&A - DC/S TME

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SECTION	INITIALS	COPY NO.
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DC/S OPRS		DIST. BY
DC/S P&A		
DC/S TME		TYPED BY
A.G.		

TELECON MSG NO.	SUBJECT	DATE
FN-26-10	Continued	

TO:	INFO:	FROM:

Planned target area: 0.8 sq. mi. percent . Percent destroyed: 130
Total damage to date: 1.04 sq. mi. percent of built-up area: 41.9
Targets damaged by current strike: 4 number, 2 other.
The heaviest concentration of damage is found in the densely settled area in the center of the city, extending from target 2035, and the thickly populated area immediately N of it, to the Sagami River. An area immediately N of target 2015 is burned out, as well as small scattered areas in the southern portion of target 1336. An area of .035 sq. mi., outside the built-up urban area, NW of target 1336 was burned out.
Damage to targets is as follows:

90.17 - 2015	Japan International Parts Co.	15	percent destroyed or removed.
90.17 - 1336	Naval Arsenal		percent destroyed
90.17 - 2035	Hiratsuka Branch of 2nd Naval Air Arsenal	100	percent destroyed or gutted
90.17 - XXI 3011	Unidentified industry	65	percent destroyed or gutted
	RR station	50	percent destroyed
	Unidentified industry (6000' E MF target 2015)	90	percent destroyed

Qualities of photos: Complete 24", good....

...End...
TOD: 1035Z

DIST — ACTION: DC/S Opr — INFO: C/S - DC/OPRS - DC/S P&A - DC/S TME A-2 (16; A-3 OC&R (7); A-5 Plans (2); Op Anal; Stat Con (2); AA; A-2 Coll. Div.

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SPECIFIC SUBJECT	TYPE OF MESSAGE	MESSAGE NO.	DATE AND TIME SENT	DATE AND TIME REC'D	INITIALS

ENEMY
OPPOSITION

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By CM NARA Date 7/29/10

SPECIFIC SUBJECT	TYPE OF MESSAGE	MESSAGE NO.	DATE AND TIME SENT	DATE AND TIME REC'D	INITIALS
Misc. Data					H

MISC.

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By CM NARA Date 7/29/10

HITACHI - population 83,000, located on east coast of Honshu, NE OF Tokyo. This is a "company" town specializing in all types of electrical equipment. There are five large works, including copper refining, wire and cable company, and plants making: heavy motors, generators and transformers; switchgear motors and light electrical equipment including indicating instruments; aircraft and ordnance components. There are no other housing facilities within 20 miles.

FUKUI - population 98,000, a railroad center with secondary repair and maintenance facilities, located 70 miles N.W. of Nagoya. It also has a number of textile mills, at least two of which have been converted to aircraft components production.

CHOSI - population 61,000, is important chiefly as a port on the east coast of Honshu, 60 miles due east of Tokyo. Located here are an airfield, quite a few military barracks, and considerable repair and dock facilities for the numerous small boats and barges which ply the east coast of Japan.

Okazaki - population 84,000, is midway between Nagoya and Toyohashi, and is part of an extended built up industrial area serving the Nagoya complex. Of the five or six converted textile plants found here, 3 are known to be producing aircraft parts and precision electrical equipment.

NIPPON OIL REFINERY AND TANK FARM - Target 1203, Amagasaki, produces synthetic oil, has eighth largest Inner Zone crude oil refinery and tenth largest Inner Zone storage capacity. Estimated capacities per year and percent of Inner Zone capacity: synthetic oil, 280,000 barrels, 2 percent; crude refining, 1,650,000 barrels, 5 percent; cracking, 500,000 barrels, 4 percent; lubricants 85,000 barrels ordinary quality, 75,000 barrels high quality; storage, over 1,250,000 barrels in over 100 tanks, less than 5 percent.

The synthetic oil is produced by Fischer-Tropsch process which involves the conversion of a mixture of carbon monoxide and hydrogen gases into liquid oil. This type of synthetic oil can be refined into motor gasoline, kerosene, diesel oil, and fuel oil. The production of aviation gas requires cracking.