

~~SECRET~~

MISSION SBM 15 & 16
DATE 6 & 9 August 1945

BREAKDOWN OF ALL AIRCRAFT FAILING TO BOMB PRIMARY TARGET

UNIT	MECHANICAL FAILURE			PERSONNEL ERROR			FLIGHT CONDITIONS			ENEMY ACTION			OTHER		
	NON-EFFECTIVE	BOMBED SECONDARY	BOMBED OTHER	NON-EFFECTIVE	BOMBED SECONDARY	BOMBED OTHER	NON-EFFECTIVE	BOMBED SECONDARY	BOMBED OTHER	NON-EFFECTIVE	BOMBED SECONDARY	BOMBED OTHER	NON-EFFECTIVE	BOMBED SECONDARY	BOMBED OTHER
509 Gp							SBM #13								
							NEGATIVE								
509 Gp	-	-	-	-	-	-	SBM #16	1	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-		1	-	-	-	-	-	-	-

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DECLASSIFIED
Authority MMJ 160063
By SP-1 NARA Date 9-2-78

~~SECRET~~

MISSION SBM 13 & 16

DATE 6 & 9 August 1945

DISPOSITION OF BOMBS

UNIT	TYPE OF BOMB	FUZE SETTING		LOADED ON AIRBORNE AIRCRAFT		RELEASED ON TARGETS						JETTISONED		RETURNED		OTHER	
		Nose	Tail	No.	Tons	PRIMARY VISUAL		SECONDARY VIS.		No.	Tons	No.	Tons	No.	Tons	No.	Tons
						No.	Tons	No.	Tons								
509 Gp	Atomic Bomb		Special	1	Unknown	1	Unknown	-	-			-	-	-	-	-	-
509 Gp	Atomic Bomb		Special	1	Unknown	-	-	1	Unknown			-	-	-	-	-	-
TOTAL				2		1		1				-	-	-	-	-	-

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Authority MMJ 160063
By SP1 NARA Date 9-2-78

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TWENTIETH AIR FORCE
CONSOLIDATED STATISTICAL SUMMARY OF COMBAT OPERATIONS
FORM 34

MISSION NO. 14, 15, 17 & 18

Special Bombing Missions By 509th Group - 313th Wing

Missions 14 & 15 - 7 August - Sakai and Yokkaichi Areas
Missions 17 & 18 - 14 August - Nagoya and Koromo Areas

EFFECTIVENESS OF MISSIONS

Aircraft Airborne 13
Percent Of Aircraft Scheduled 100%

Aircraft Bombing All Targets. 12
Percent Of Bombing Aircraft Airborne. 92.3%

Bombs Dropped On Primary Targets. . . . 40 Tons
Bombs Dropped On Secondary Targets. . . 15 Tons
Bombs Dropped On Other Targets. 5 Tons

Bombing Results - Data unavailable at this date.

COST OF MISSIONS

Aircraft Lost None
Aircraft Damaged. None
Crew Member Casualties. None
Aircraft Landing At Iwo Jima. . . None

DATE OF ISSUE 22 August 1945

-SECRET-

33RD STATISTICAL CONTROL UNIT

~~SECRET~~

MISSION
DATE 6 & 9 August 1945

AIRCRAFT LOST AND DAMAGED - PERSONNEL CASUALTIES

UNIT	AIRCRAFT LOST							AIRCRAFT DAMAGED							PERSONNEL CASUALTIES						
	ENEMY A/C	ENEMY A/A	ENEMY A/C & A/A	ACC. & MECH	OTHER	UN- KNOWN	TOTAL	ENEMY A/C	ENEMY A/A	ENEMY A/C & A/A	ACC. & MECH	OWN GUNS	OTHER	UN- KNOWN	TOTAL		TOTAL PARTICI- PATING	KILLED	MISS- ING	WOUNDED & INJURED	TOTAL CASUALTIES
															MAJOR	MINOR					
509 Gp							None									None	64				None
509 Gp							None									None	56				None
TOTAL							None									None	120				None

~~SECRET~~

TOP ~~SECRET~~

MISSION SBM #3 & 16
DATE 6 & 9 August 1945

ENEMY OPPOSITION AND AMMUNITION EXPENDITURE

UNIT	ENEMY A/C SIGHTED	ATTACKS BY E/A	ENEMY A/C DESTROYED & DAMAGED			50 CALIBER AMMUNITION EXPENDITURE				
			DESTROYED	PROBABLY DESTROYED	DAMAGED	FIRED IN COMBAT	TEST FIRED	JETTISONED	ON LOST A/C	TOTAL
509 Gp	-	-	-	-	<u>SBM #13</u>	-	120	-	-	120
509 Gp	-	-	-	-	<u>SBM #16</u>	-	100	-	-	100
TOTAL	-	-	-	-	-	-	220	-	-	220

~~SECRET~~

DECLASSIFIED
Authority MMJ 160063
By SP1 NARA Date 9-2-78

TOP ~~SECRET~~

MISSION SBM 13 & 16

DATE 6 & 9 August 1945

FLIGHT DATA & FUEL CONSUMPTION

MISSION NUMBER		SBM #13		SBM #16	
UNIT		509TH GP.		509TH GP.	
AIRCRAFT CONSIDERED		6		5	
AVERAGE FLYING TIME		12:35		16:16	
FUEL CONSUMED:					
Average		6066		7343	
Maximum		-		-	
Minimum		-		-	
FUEL REMAINING:					
Average		Not		Not	
Maximum					
Minimum		Available		Available	
AVG. GALS. USED PER HOUR		482.2		451.3	
TOTAL USED ON AIRBORNE A/C		36396		36715	

WEIGHT DATA

NO. AIRCRAFT AIRBORNE					
AVG. BASIC WT. OF AIRCRAFT					
AVERAGE USEFUL LOAD					
AVG. NO. OF BOMBS LOADED					
	<u>COMPLETE DATA UNAVAILABLE</u>				
AVG. WT. OF BOMBS LOADED					
AVERAGE FUEL LOADED					
AVG. WT. OF FUEL LOADED					
AVERAGE MISC. WEIGHT					
AVG. GROSS WT. AT TAKE OFF					

TOP ~~SECRET~~

~~SECRET~~

MISSION SBM - 13 & 16
DATE 6 & 9 August 1945

BOMBING RUN

UNIT	TARGET BOMBED		AIRCRAFT DROPPING BOMBS	TIME OF RELEASE		ALT. OF RELEASE		VISUAL SIGHTING			RADAR SIGHTING			
	NAME OF TARGET	TYPE		EARLIEST	LATEST	LOWEST	HIGHEST	STANDARD	ON REFER- ENCE OR- OFFSET PT.	RADAR RUN WITH VIS. CORRECT'NS	DROPPING ON LEADER	DIRECT	OFFSET	DROPPING ON LEADER
509 Gp	Hiroshima Urban Area	PV	1	2315 Z	-	<u>SBM #13</u> 31600	-	1	-	-	-	-	-	-
509 Gp	Nagasaki	SV	1	0158 Z	-	<u>SBM #16</u> 31600	-	1	-	-	-	-	-	-
TOTAL			2					2	-	-	-	-	-	-

~~SECRET~~

DECLASSIFIED
Authority MMJ 760063
By SP1 NARA Date 9-2-78

SECRET

MISSION ~~14, 15, 17 & 18~~
DATE ~~7 & 14 August 1945~~

BREAKDOWN OF ALL AIRCRAFT FAILING TO BOMB PRIMARY TARGET

UNIT	MECHANICAL FAILURE			PERSONNEL ERROR			FLIGHT CONDITIONS			ENEMY ACTION			OTHER		
	NON-EFFECTIVE	BOMBED SECONDARY	BOMBED OTHER	NON-EFFECTIVE	BOMBED SECONDARY	BOMBED OTHER	NON-EFFECTIVE	BOMBED SECONDARY	BOMBED OTHER	NON-EFFECTIVE	BOMBED SECONDARY	BOMBED OTHER	NON-EFFECTIVE	BOMBED SECONDARY	BOMBED OTHER
509Gp.	-	-	-	1 ^a	-	-	Missions #14 & #15	3	-	-	-	-	-	-	-
509Gp.	-	-	-	-	-	-	Missions #17 & #18	-	-	-	-	-	-	-	1
TOTAL	-	-	-	1	-	-	-	3	-	-	-	-	-	-	1

^a Maintenance error.

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DECLASSIFIED
Authority NNJ 760063
By SP-1 NARA Date 9-2-78

SECRET

MISSION 14, 15, 17 & 18

DATE 7 & 14 August 1945

AIRCRAFT PARTICIPATING

UNIT	NUMBER OF AIRCRAFT				TIME OF TAKE OFF			TIME OF RETURN			NUMBER OF AIRCRAFT						
	ON HAND	SCHED- ULED	FAILING TO TAKEOFF	AIR- BORNE	DATE	FIRST	LAST	DATE	FIRST	LAST	BOMBING PRIMARY TARGET	BOMBING SECONDARY TARGET	BOMBING OTHER TARGETS	COMPLETING AUXILIARY MISSIONS	EFFECTIVE	NON- EFFECTIVE	LANDING AT IWO JIMA
509Gp	15	6	-	6	7 Aug.	1729Z	1747 Z	8 Aug.	Mission #14 & #15 0500 Z 0620 Z		2	3	-	-	5	1	-
509Gp	13	7	-	7	13-14 August	2325Z	0007 Z	14 Aug.	Mission #17 & #18 1120 Z 1220 Z		6	-	1	-	7	-	-
TOTAL	28	13	-	13							8	3	1	-	12	1	-

35 PTU 7-13-59

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Authority MMJ 160063
By SP-1 NARA Date 9-2-78

SECRET

MISSION 14, 15, 17 & 18

DATE 7 & 14 August 1945

BOMBING RUN

UNIT	TARGET BOMBED		AIRCRAFT DROPPING BOMBS	TIME OF RELEASE		ALT. OF RELEASE		VISUAL SIGHTING			RADAR SIGHTING			
	NAME OF TARGET	TYPE		EARLIEST	LATEST	LOWEST	HIGHEST	STANDARD	ON REFER- ENCE OR- OFFSET PT.	RADAR RUN WITH VIS. CORRECT'NS	DROPPING ON LEADER	DIRECT	OFFSET	DROPPING ON LEADER
509 Gp.	Uwajima Assembly Plant (#6278)	S	1	0023 Z	-	Mission #14 32000	-	1	-	-	-	-	-	-
	Tsuruga Chemical Plant (#6126)	S	1	0010 Z	-	31000	-	1	-	-	-	-	-	-
	Tokushima Light Industry	S	1	2357 Z	-	30100	-	1	-	-	-	-	-	-
509 Gp.	Yokkaichi Heavy Industry	P	1	2340 Z	-	Mission #15 31000	-	1	-	-	-	-	-	-
	Utsube River Oil Refinery (#1684)	P	1	2350 Z	-	30500	-	1	-	-	-	-	-	-
509 Gp.	Nagoya Arsenal Torii-matsu Factory (#200)	P	3	0550 Z	0624 Z	Mission #17 29000	30900	3	-	-	-	-	-	-
	Nagoya Arsenal Takaki Factory (#1691)	TO	1	Unknown		Unknown		1	-	-	-	-	-	-
509 Gp.	Koromo-Toyoda Auto Works (#1139)	P	3	0553 Z	0601 Z	Mission #18 30700	30800	3	-	-	-	-	-	-
TOTAL	Primary & Secondary Targets		11					11	-	-	-	-	-	-

SECRET

DECLASSIFIED
Authority NNJ 760063
By SP-1 NARA Date 9-2-78

SECRET

MISSION 14, 15, 17 & 18

DATE 7 & 14 August 1945

DISPOSITION OF BOMBS

UNIT	TYPE OF BOMB	FUZE SETTING		LOADED ON AIRBORNE AIRCRAFT		RELEASED ON TARGETS					JETTISONED		RETURNED		OTHER				
		Nose	Tail	No.	Tons	PRIMARY		SECONDARY		TARGET OF OPP.		No.	Tons	No.	Tons	No.	Tons		
						No.	Tons	No.	Tons	No.	Tons								
509Gp.	Special 10000#		Special	6	30.0	Missions #14 & #15		2	10.0	3	15.0	-	-	-	-	1	5.0	-	-
509Gp.	Special 10000#		Special	7	35.0	Missions #17 & #18		6	30.0	-	-	1	5.0	-	-	-	-	-	-
TOTAL				13	65.0	8	40.0	3	15.0	1	5.0	-	-	1	5.0	-	-	-	-

NOTE: One bomb loaded per aircraft.

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DECLASSIFIED
Authority MMJ 160063
By SP1 NARA Date 9-2-78

SECRET

MISSION 14, 15, 17, & 18

DATE 7 & 14 August 1945

ENEMY OPPOSITION AND AMMUNITION EXPENDITURE

UNIT	ENEMY A/C SIGHTED	ATTACKS BY E/A	ENEMY A/C DESTROYED & DAMAGED			50 CALIBER AMMUNITION EXPENDITURE				
			DESTROYED	PROBABLY DESTROYED	DAMAGED	FIRED IN COMBAT	TEST FIRED	JETTISONED	ON LOST A/C	TOTAL
509Gp.	-	-	-	-	Missions #14 & #15	-	100	-	-	100
509Gp.	-	-	-	-	Missions #17 & #18	-	140	-	-	140
TOTAL	-	-	-	-		-	240	-	-	240

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DECLASSIFIED
Authority MMJ 760063
By SP-1 NARA Date 9-2-78

S E C R E T

MISSION 14, 15, 17 & 18
DATE 7 & 14 August 1945

AIRCRAFT LOST AND DAMAGED - PERSONNEL CASUALTIES

UNIT	AIRCRAFT LOST							AIRCRAFT DAMAGED								PERSONNEL CASUALTIES					
	ENEMY A/C	ENEMY A/A	ENEMY A/C & A/A	ACC. & MECH	OTHER	UN- KNOWN	TOTAL	ENEMY A/C	ENEMY A/A	ENEMY A/C & A/A	ACC. & MECH	OWN GUNS	OTHER	UN- KNOWN	TOTAL		TOTAL PARTICI- PATING	KILLED	MISS- ING	WOUNDED & INJURED	TOTAL CASUALTIES
															MAJOR	MINOR					
509 Gp.							None			Missions #14 & #15					None	57				None	
509 Gp.							None			Missions #17 & #18					None	63				None	
TOTAL							None							None	120				None		

S E C R E T

DECLASSIFIED
 Authority NNJ 760063
 By SP-1 NARA Date 9-2-78

S E C R E T

MISSION 14,15,17, & 18
DATE 7 & 14 August 1945

FLIGHT DATA & FUEL CONSUMPTION

MISSION NUMBER		#14 & #15	#17 & #18
UNIT		509TH GP.	509TH GP.
AIRCRAFT CONSIDERED		5	7
AVERAGE FLYING TIME		12:03	12:05
FUEL CONSUMED:			
Average		5895	5680
Maximum		6166	6216
Minimum		5463	5333
FUEL REMAINING:			
Average		1129	1260
Maximum		1696	1548
Minimum		884	760
AVG. GALS. USED PER HOUR		489.2	470.2
TOTAL USED ON AIRBORNE A/C		29477	39765

WEIGHT DATA

		5	7
NO. AIRCRAFT AIRBORNE		5	7
AVG. BASIC WT. OF AIRCRAFT		72000	72000
AVERAGE USEFUL LOAD		58800	58800
AVG. NO. OF BOMBS LOADED		1	1
AVG. WT. OF BOMBS LOADED		9800	9800
AVERAGE FUEL LOADED		7000	6940
AVG. WT. OF FUEL LOADED		42000	41640
AVERAGE MISC. WEIGHT		7000	7360
AVG. GROSS WT. AT TAKE OFF		130800	130800

Bomb Weights: Special Bomb - 9800 lbs.

S E C R E T

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Authority NNI 760063
By 21 NARA Date 9-27-05

T O P S E C R E T

ANNEX

F

TWENTIETH AIR FORCE FIELD ORDERS

Special Bombing Missions No. 1 through 18

20 July to 14 August 1945

-95-

T O P S E C R E T

DECLASSIFIED

Authority NNJ 760063

By 21 NARA Date 9-27-05

S E C R E T

SECRET

Auth: CG, Twentieth Air Force
Initials: J.A.C.
Date: 19 July 1945

FIELD ORDERS)
NUMBER 3)

TWENTIETH AIR FORCE
GUAM
19 July 1945 - 0500K

Maps: Japan Aviation Chart 1:218,880.

1. Omitted.
2. Twentieth Air Force attacks precision targets in TOYAMA, NAGAOKA, FUKUSHIMA, AND KORIYAMA AREAS on morning of 20 July 1945.
3. a. Omitted.
b. Omitted.
c. 313th Wing, 509th Group:

(1) Primary visual targets:

(a) 90.10 - 1088 JAPAN REFINERY CO. (PHOSPHOROUS) KORIYAMA

AP

FORCE REQUIRED

069069

1 Aircraft

AP Reference: XXI BomCom Litho-Mosaic, KORIYAMA AREA, HODOGAYA CHEMICAL INDUSTRIES No. 90.10 - 2025.

(b) 90.10 - unnumbered. Marshalling Yards

AP

FORCE REQUIRED

086085

1 Aircraft

AP Reference: XXI BomCom Litho-Mosaic, KORIYAMA AREA, HODOGAYA CHEMICAL INDUSTRIES No. 90.10 - 2025.

(c) 90.10 - unnumbered. Light Industry, KORIYAMA

AP

FORCE REQUIRED

058123

1 Aircraft

AP Reference: XXI BomCom Litho-Mosaic, KORIYAMA AREA, HODOGAYA CHEMICAL INDUSTRIES No. 90.10 - 2025.

(d) 90.10 - XXI 6216. Light Industry, FUKUSHIMA

AP

FORCE REQUIRED

044112

1 Aircraft

AP Reference: XXI BomCom Litho-Mosaic, FUKUSHIMA AREA No. 90.14 - Urban.

(e) 90.10 - 1665. SHINAGAWA MFG. PLANT, FUKUSHIMA

AP

FORCE REQUIRED

060113

1 Aircraft

AP Reference: XXI BomCom Litho-Mosaic, FUKUSHIMA AREA No. 90.14 - Urban.

-1-

S E C R E T

DECLASSIFIED

Authority NNI 760063

By 21 NARA Date 9-27-05

S E C R E T

(f) 90.9 - XXI 6271. Light Industry, NAGAOKA

AP

FORCE REQUIRED

129098

1 Aircraft

AP Reference: XXI BomCom Litho-Mosaic, NAGAOKA AREA
No. 90.9.

(g) 90.9 - 1656. TSUGAMI - ATAGI MFG. CO.

AP

FORCE REQUIRED

120098

1 Aircraft

AP Reference: XXI BomCom Litho-Mosaic NAGAOKA AREA
No. 90.9.

(h) 90.11 - 1943. FUJIKASHI STEEL PRODUCTS, HIGASHI IWASE
PLANTS, TOYAMA

AP

FORCE REQUIRED

139070

1 Aircraft

AP Reference: XXI BomCom Litho-Mosaic, TOYAMA AREA B
No. 90.11 - Urban.

(i) 90.11 - 861. NUHIMAN ALUMINUM CO., TOYAMA

AP

FORCE REQUIRED

099081

1 Aircraft

AP Reference: XXI BomCom Litho-Mosaic, TOYAMA AREA B
No. 90.11 - Urban.

(j) 90.11 - XXI 6253. NIPPON SODA CO., TOYAMA STEEL PLANT

AP

FORCE REQUIRED

093011

1 Aircraft

AP Reference: XXI BomCom Litho-Mosaic, TOYAMA AREA B
No. 90.11 - Urban.

(2) Secondary targets: Center of any urban target of opportunity
upon which visual bombing can be accomplished.

(3) Routes:

(a) For targets (a), (90.10 - 1088), (b), (90.10 - unnumbered,
Marshalling Yards), and (c), (90.10 - unnumbered,
Light Industry, KORIYAMA):

Base

Iwo Jima

3545N - 14110E

370630N - 14100E (IP)

Target

Left Turn

3649N - 14048E

3545N - 14105E

Iwo Jima

Base

-2-

S E C R E T

DECLASSIFIED

Authority NNI 760063

By 21 NARA Date 9-27-05

S E C R E T

- (b) For targets (d), (90.10 - XXI 6216), and (e), (90.10 - 1665):

Base
Iwo Jima
3700N - 14115E
3740N - 1405930E (IP)
Target
Left Turn
3656N - 1405530E
3445N - 14105E
Iwo Jima
Base

- (c) For targets (f), (90.9 - XXI 6271), and (g), (90.9 - 1656):

Base
Iwo Jima
3545N - 14110E
3618N - 14035E
3727N - 13935E (IP)
Target
Left Turn
3650N - 14105E
Iwo Jima
Base

- (d) For targets (h), (90.11 - 1943), (i), (90.11 - 861), and (j), (90.11 - XXI 6253):

Base
Iwo Jima
3353N - 13607E
3615N - 13607E (IP)
Target
Right Turn
3438N - 13805E
Iwo Jima
Base

(4) Altitudes:

- (a) Enroute to target: 6,000 ft.
(b) Of attack: 28,000 - 30,000 ft.
(c) Enroute from target: To be at or below 18,000 ft. at Iwo Jima.

- (5) Bomb Load: 1 special bomb to be termed "Pumpkin" per aircraft. Fuzing, special.
(6) Method of Attack: By individual aircraft.
(7) Bombing Airspeed: 215 CLAS.
(8) Take off: 200200K at 5 minute interval between aircraft.

d. Omitted.

e. Omitted.

-3-

S E C R E T

DECLASSIFIED

Authority NNI 760063

By 21 NARA Date 9-27-05

S E C R E T

4. No Tactical Mission Numbers were assigned to these missions. For record purposes, Special Bombing Mission Numbers were assigned as follows:

Special Bombing Mission Number	Targets
1	90.10 - 1088 90.10 - unnumbered-Marshalling Yards 90.10 - unnumbered-Light Industry
2	90.10 - XXI 6216 90.10 - 1665
3	90.9 - XXI 6271 90.9 - 1656
4	90.11 - 1943 90.11 - 861 90.11 - XXI 6253

5. a. Twentieth Air Force SOI and SOP for strike reports, contact reports and IFF procedures.
b. Command Post: Hq., Twentieth Air Force, GUAM.

BY COMMAND OF MAJOR GENERAL LEMAY:

A W KISSNER
Brigadier General, USA
Chief of Staff

OFFICIAL:

John B. Montgomery
JOHN B MONTGOMERY
Colonel, GSC
D C/S, Operations

SECRET

SECRET

Auth: CG, Twentieth Air Force

Initials:

Date: 23 July 1945

FIELD ORDERS)
 :
NUMBER 6)

TWENTIETH AIR FORCE
GUAM
23 July 1945 - 1800K

Maps: Japan Aviation Chart 1:213,880.

1. Omitted.
2. Twentieth Air Force attacks precision targets in JAPAN 24 July 1945.
3. a. Omitted.
 b. Omitted.
 c. 313th Bomb Wing, 509th Composite Group:

(1) Primary visual targets:

(a) SUMITOMA COPPER REFINERY CO. (90.29 - 923)

AP

FORCE REQUIRED

069069

1 A/C

AP Reference: XXI BomCom Litho-Mosaic NIIHAMA AREA
No. 90.29 - Urban.

(b) SUMITOMA ALUMINUM CO. (90.29 - 924)

AP

FORCE REQUIRED

073128

1 A/C

AP Reference: XXI BomCom Litho-Mosaic NIIHAMA AREA
No. 90.29 - Urban.

(c) IGR SHOPS, KOBE (90.25 - 536)

AP

FORCE REQUIRED

007131

1 A/C

AP Reference: XXI BomCom Litho-Mosaic KOBE AREA
No. 90.25 - Urban.

(d) KAWASAKI LOCOMOTIVE AND CAR CO., KOBE (90.25 - 11)

AP

FORCE REQUIRED

011117

1 A/C

AP Reference: XXI BomCom Litho-Mosaic KOBE AREA
No. 90.25 - Urban.

- 1 -

SECRET

DECLASSIFIED

Authority NNI 760063

By 21 NARA Date 9-27-08

SECRET

F.O. #6

(e) MITSUBISHI HEAVY INDUSTRIES (90.25 - 169)

<u>AP</u>	<u>FORCE REQUIRED</u>
058095	1 A/C

AP Reference: XXI BomCom Litho-Mosaic KOBE AREA
No. 90.25 - Urban.

(f) KOBE STEEL WORKS (90.25 - 1768)

<u>AP</u>	<u>FORCE REQUIRED</u>
146125	1 A/C

AP Reference: XXI BomCom Litho-Mosaic KOBE AREA
No. 90.25 - Urban.

(g) SHINKO WOOLEN MILL (90.25 - Unnumbered)

<u>AP</u>	<u>FORCE REQUIRED</u>
039092	1 A/C

AP Reference: XXI BomCom Litho-Mosaic AMAGASAKI AREA,
KAWANISHI AIRCRAFT CO. No. 90.25 - 18.

(h) FURUKAWA ELECTRICAL CO. (90.25 - 1739)

<u>AP</u>	<u>FORCE REQUIRED</u>
074109	1 A/C

AP Reference: XXI BomCom Litho-Mosaic AMAGASAKI-OSAKA
AREA No. 90.25 - Urban.

(i) HEAVY INDUSTRY in YOKKAICHI HARBOR AREA (90.20 - 1737)

<u>AP</u>	<u>FORCE REQUIRED</u>
072067	1 A/C

AP Reference: XXI BomCom Litho-Mosaic YOKKAICHI AREA,
UTSUBE RIVER OIL REFINERY No. 90.20 - 1684.

(j) CONVERTED TEXTILE MILL (90.20 - Unnumbered)

<u>AP</u>	<u>FORCE REQUIRED</u>
019041	1 A/C

AP Reference: XXI BomCom Litho-Mosaic YOKKAICHI AREA,
UTSUBE RIVER OIL REFINERY No. 90.20 - 1684.

(k) UTSUBE RIVER OIL REFINERY (90.20 - 1684)

<u>AP</u>	<u>FORCE REQUIRED</u>
066009	1 A/C

AP Reference: XXI BomCom Litho-Mosaic YOKKAICHI AREA,
UTSUBE RIVER OIL REFINERY No. 90.20 - 1684.

SECRET

F.O. #6

(2) Secondary targets: Center of any urban target of opportunity upon which visual bombing can be accomplished.

(3) Route:

(a) For Targets 90.29 - 923 and 90.29 - 924:

Base
IWO JIMA
3350N - 13445E
340130N - 1334830E (IP)
Target
Left Turn
IWO JIMA
Base.

(b) For Targets 90.25 - 533, 11, 169, and 1763:

Base
IWO JIMA
3331N - 13346E
3426N - 13420E (IP)
Target
Right Turn
IWO JIMA
Base.

(c) For Targets: 90.25 - Unnumbered and 90.25 - 1739:

Base
IWO JIMA
341630N - 13655E
3441N - 13550E (IP)
Target
Left Turn
IWO JIMA
Base.

(d) For Targets 90.20 - 1737, Unnumbered and 1684:

Base
IWO JIMA
3430N - 13725E
3446N - 1371030E (IP)
Target
Left Turn
IWO JIMA
Base.

(4) Altitudes:

(a) Enroute to target: 9,000 ft.

(b) Attack: 28,000 - 30,000 ft.

(c) Enroute from target: To be at or below 18,000 ft. at IWO JIMA.

(5) Bomb Load: As prescribed by C.O., 509th Group.

(6) Method of Attack: By individual aircraft.

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By 21 NARA Date 9-27-05

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F.O. #6

(7) Bombing Airspeed: 200 CIAS.

(8) Takeoff: 240200K.

d. Omitted.

e. Omitted.

4. No Tactical Mission Numbers will be assigned to these missions. For record purposes Special Bombing Mission Numbers are assigned as follows:

<u>Special Bombing Mission Number</u>	<u>Targets</u>
5	90.29 - 923 90.29 - 924
6	90.25 - 538 90.25 - 11 90.25 - 169 90.25 -1768
7	90.25 - Unnumbered 90.25 -1739
8	90.20 -1737 90.20 - Unnumbered 90.20 -1634

5. a. Twentieth Air Force SOI and SOP for strike reports, contact reports, and IFF procedures.

b. Command Post: Hq., Twentieth Air Force, GUAM.

BY COMMAND OF MAJOR GENERAL LEMAY:

A W KISSNER
Brigadier General, USA
Chief of Staff

OFFICIAL:

J B Montgomery
J B MONTGOMERY
Colonel, G.S.C.
D/C/S, Operations

DISTRIBUTION:

2 - CG, 58th Bomb Wing
2 - CG, 73rd Bomb Wing
2 - CG, 313th Bomb Wing
2 - CG, 314th Bomb Wing
2 - CG, 315th Bomb Wing
1 - CG, VII Fighter Comd
1 - CO, 3rd Photo Recon Sq
6 - A-3 Tactics, Twentieth Air Force
2 - 33rd SCU, Twentieth Air Force
1 - RCM Office, Twentieth Air Force
1 - Communications, Twentieth Air Force
1 - OAS, Twentieth Air Force
2 - CIU, Twentieth Air Force
1 - A-2 Reporting, Twentieth Air Force
4 - A-2, Twentieth Air Force

- 4 -

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Authority *NNI 760063*

By *21* NARA Date *9-27-05*

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Auth: CG, Twentieth Air Force
Initials:
Date: 25 July 1945

FIELD ORDERS)
NUMBER 8)

TWENTIETH AIR FORCE
GUAM
25 July 1945 - 0100K

Map: JAPAN Aviation Chart 1:218,830.

1. Omitted.
2. Twentieth Air Force attacks precision targets in JAPAN 26 July 1945.
3. a. Omitted.
b. Omitted.
c. 313th Bomb Wing, 509th Composite Group:

(1) Primary visual targets:

(a) LIGHT INDUSTRY, NAGAOKA (90.9 - XXI 6271)

<u>AP</u>	<u>FORCE REQUIRED</u>
129098	2 A/C

AP Reference: XXI BomCom Litho-Mosaic NAGAOKA AREA
No. 90.9.

(b) TSUGAMI - ATAGI MFG. CO. (90.9 - 1656)

<u>AP</u>	<u>FORCE REQUIRED</u>
120098	2 A/C

AP Reference: XXI BomCom Litho-Mosaic NAGAOKA AREA
No. 90.9.

(c) FUJIKOSHI STEEL PRODUCTS, HIGASHI IWASE PLANTS, TOYAMA
(90.11 - 1943)

<u>AP</u>	<u>FORCE REQUIRED</u>
139070	2 A/C

AP Reference: XXI BomCom Litho-Mosaic TOYAMA AREA "B"
No. 90.11 - Urban.

(d) NICHIMAN ALUMINUM CO., TOYAMA (90.11 - 861)

<u>AP</u>	<u>FORCE REQUIRED</u>
099081	2 A/C

AP Reference: XXI BomCom Litho-Mosaic TOYAMA AREA "B"
No. 90.11 - Urban.

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By NARA Date 9-27-05

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F.O. #3

(e) NIPPON SODA CO., TOYAMA STEEL PLANT (90.11 - XXI 6253)

AP

FORCE REQUIRED

093011

2 A/C

AP Reference: XXI BomCom Litho-Mosaic TOYAMA AREA "B"
No. 90.11 - Urban.

(2) Secondary visual target: Center of any urban area target of opportunity except KYOTO, NIIGATA, HIROSHIMA, and KOKURA.

(3) Route:

(a) For Targets 90.9 - XXI 6271 and - 1656:

Base
IWO JIMA
3545N - 14110E
3618N - 14035E
3727N - 13935E (IP)
Target
Left Turn
3650N - 14105E
IWO JIMA
Base.

(b) For Targets 90.11 - 1943, - 861 and - XXI 6253:

Base
IWO JIMA
3353N - 13607E
3615N - 13607E (IP)
Target
Right Turn
3438N - 13805E
IWO JIMA
Base.

(4) Altitudes:

(a) Enroute to target: 8,000 - 10,000 ft.

(b) Attack: 28,000 - 30,000 ft. or below cirrus clouds so as to perform visual bombing.

(c) Enroute from target: At or below 18,000 ft. passing IWO JIMA.

(5) Bomb Load: As prescribed by C.O., 509th Group.

(6) Method of Attack: By individual aircraft.

(7) Bombing Airspeed: 200 MPH CIAS.

(8) Takeoff: 260230K

d. Omitted.

e. Omitted.

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By 21 NARA Date 9-27-05

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F.O. #8

4. No Tactical Mission Numbers will be assigned to these missions. For record purposes, Special Bombing Mission Numbers are assigned as follows:

<u>Special Bombing Mission Number</u>	<u>Targets</u>
8	90.9 - XXI 6271 90.9 - 1656
9	90.11 - 1943 90.11 - 861 90.11 - XXI 6253

5. a. Twentieth Air Force SOI and SOP for strike reports, contact reports, and IFF procedures.
b. Command Post: Hq., Twentieth Air Force, GUAM.

BY COMMAND OF MAJOR GENERAL LEMAY:

A W KISSNER
Brigadier General, USA
Chief of Staff

OFFICIAL:

J B Montgomery
J B MONTGOMERY
Colonel, G.S.C.
D C/S, Operations

DISTRIBUTION:

2 - CG, 58th Bomb Wing
2 - CG, 73rd Bomb Wing
2 - CG, 313th Bomb Wing
2 - CG, 314th Bomb Wing
2 - CG, 315th Bomb Wing
1 - CG, VII Fighter Comd
1 - CO, 3rd Photo Recon Sq
6 - A-3 Tactics, Twentieth Air Force
2 - 33rd SCU, Twentieth Air Force
1 - RCM Office, Twentieth Air Force
1 - Communications, Twentieth Air Force
1 - OAS, Twentieth Air Force
2 - CIU, Twentieth Air Force
1 - A-2 Reporting, Twentieth Air Force
4 - A-2, Twentieth Air Force

- 3 -

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Authority *NNI 760063*

By *21* NARA Date *9-27-05*

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Auth: CG, Twentieth Air Force
Initials: RBP
Date: 23 July 1945

FIELD ORDERS)
NUMBER 11)

TWENTIETH AIR FORCE
GUAM
23 July 1945 - 0100KING

Map: JAPAN Aviation Chart 1:218,880.

1. Omitted.
2. Twentieth Air Force attacks precision targets in JAPAN 29 July 1945.
3. a. Omitted.
b. Omitted.
c. 313th Bomb Wing, 509th Composite Group:

(1) Primary visual targets:

(a) UBE NITROGEN FERTILIZER CO. (90.32 - 818)

<u>AP</u>	<u>FORCE REQUIRED</u>
110096	1 A/C
105099	1 A/C

AP Reference: XXI BomCom Litho-Mosaic UBE AREA
No. 90.32 - Urban.

(b) UBE SODA COMPANY (90.32 - 1844)

<u>AP</u>	<u>FORCE REQUIRED</u>
120064	1 A/C

AP Reference: XXI BomCom Litho-Mosaic UBE AREA
No. 90.32 - Urban.

(c) NIPPON OIL CO. (90.32 - 1830)

<u>AP</u>	<u>FORCE REQUIRED</u>
117079	1 A/C

AP Reference: XXI BomCom Litho-Mosaic UBE AREA
No. 90.32 - Urban.

(d) HEAVY INDUSTRY in YOKKAICHI HARBOR AREA (90.20 - 1737)

<u>AP</u>	<u>FORCE REQUIRED</u>
072067	1 A/C

AP Reference: XXI BomCom Litho-Mosaic, YOKKAICHI AREA,
UTSUBE RIVER OIL REFINERY, No. 90.20 - 1684.

(e) CONVERTED TEXTILE MILL (90.20 - Unnumbered)

<u>AP</u>	<u>FORCE REQUIRED</u>
019041	1 A/C

AP Reference: XXI BomCom Litho-Mosaic YOKKAICHI AREA,
UTSUBE RIVER OIL REFINERY, No. 90.20 - 1684.

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Authority NNI 760063

By 21 NARA Date 9-27-05

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F.O. #11

- (f) UTSUBE RIVER OIL REFINERY (90.20 - 1634)

AP

FORCE REQUIRED

066009

1 A/C

AP Reference: XXI BomCom Litho-Mosaic YOKKAICHI AREA,
UTSUBE RIVER OIL REFINERY, No. 90.20 - 1634.

- (g) JAPAN REFINERY CO. (PHOSPHOROUS CO.), KORIYAMA,
(90.10 - 1038)

AP

FORCE REQUIRED

069069

1 A/C

AP Reference: XXI BomCom Litho-Mosaic KORIYAMA AREA,
HODOGAYA CHEMICAL INDUSTRIES, No. 90.10 - 2025.

- (h) MARSHALLING YARDS (90.10 - Unnumbered)

AP

FORCE REQUIRED

086035

1 A/C

AP Reference: XXI BomCom Litho-Mosaic KORIYAMA AREA,
HODOGAYA CHEMICAL INDUSTRIES, No. 90.10 - 2025.

- (i) LIGHT INDUSTRY, KORIYAMA (90.10 - Unnumbered)

AP

FORCE REQUIRED

053123

1 A/C

AP Reference: XXI BomCom Litho-Mosaic KORIYAMA AREA,
HODOGAYA CHEMICAL INDUSTRIES, No. 90.10 - 2025.

- (2) Secondary visual targets:

- (a) Any other primary visual target assigned in Field Orders
Numbers 3, 6 and 8.

- (b) 1. KAMMON TUNNEL AND HIKOSHIMA RR YARDS (90.34 - 772)

AP

028113
027089

AP Reference: XXI BomCom Litho-Mosaic SHIMONOSEKI
AREA No. 90.34 - Urban.

2. DAIRI RR YARDS (90.34 - 1674)

AP

067045

AP Reference: XXI BomCom Litho-Mosaic SHIMONOSEKI
AREA No. 90.34 - Urban.

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Authority NNI 760063

By 21 NARA Date 9-27-08

SECRET

F.O. #11

3. FUKUOKA SEAPLANE WORKS (90.35 - 2079 (1237))

AP

131081

AP Reference: XXI BomCom Litho-Mosaic FUKUOKA
AREA No. 90.35 - Urban.

4. WATANABE AIRCRAFT PLANT (90.35 - 662)

AP

100067

109063

131062

AP Reference: XXI BomCom Litho-Mosaic YAMADA AREA,
WATANABE AIRCRAFT PLANT No. 90.35 - 662.

5. TORPEDO BOAT BASE & MINE DEPOT, KURE (90.30 - 657C)

AP

039078

AP Reference: XXI BomCom Litho-Mosaic KURE AREA
No. 90.30 - Urban.

6. KURE SUBMARINE BASE (90.30 - 658)

AP

014074

AP Reference: XXI BomCom Litho-Mosaic KURE AREA,
No. 90.30 - Urban.

7. HIRO ARSENAL (90.30 - 794)

AP

117077

AP Reference: XXI BomCom Litho-Mosaic KURE AREA
No. 90.30 - Urban.

8. TOKUYAMA SODA CO. (CHEMICALS) (90.32 - 675)

AP

038084

032070

AP Reference: XXI BomCom Litho-Mosaic TOKUYAMA
AREA No. 90.32 - Urban.

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By 21 NARA Date 9-27-05

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F.O. #11

2. TOKUYAMA MARSHALLING YARDS (90.32 - Unnumbered)

AP

064066

AP Reference: XXI BomCom Litho-Mosaic TOKUYAMA
AREA No. 90.32 - Urban.

- (c) 1. ASAKI BEMBERG GUNPOWDER PLANT, NOBEOKA (90.33 - 1310)

AP

062120

AP Reference: XXI BomCom Litho-Mosaic NOBEOKA AREA
No. 90.33 - Urban.

2. ASAKI BEMBERG CUPRAMONIUM PLANT, NOBEOKA (90.33 - 1314)

AP

059044

AP Reference: XXI BomCom Litho-Mosaic NOBEOKA AREA
No. 90.33 - Urban.

3. ASAKI BEMBERG VISCOSE PLANT, NOBEOKA (90.33 - 1315)

AP

061058

AP Reference: XXI BomCom Litho-Mosaic NOBEOKA AREA
No. 90.33 - Urban.

4. OITA SEAPLANE STATION, OITA (90.33 - 2532)

AP

040091

AP Reference: XXI BomCom Litho-Mosaic OITA AREA
No. 90.33 - 1308.

5. KANEGAFUCHI AVIATION FUEL PLANT, BOFU (90.32 - XXI 6199)

AP

086084

AP Reference: XXI BomCom Litho-Mosaic BOFU AREA
No. 90.32 - Urban.

6. FUKUSHIMA JINKEN RAYON PLANT, BOFU (90.32 - XXI 6201)

AP

102088

AP Reference: XXI BomCom Litho-Mosaic BOFU AREA
No. 90.32 - Urban.

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Authority NNI 760063

By 21 NARA Date 9-27-05

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F.O. #11

7. UNIDENTIFIED ASSEMBLY PLANT (A/C) (90.31 - XXI 6278)

AP

038055

AP Reference: XXI BomCom Litho-Mosaic UWAJIMA AREA
No. 90.31 - Urban.

8. MATSUYAMA OIL REFINERY, MATSUYAMA (90.29 - 2247 (Old
XXI 6192) }

AP

061078

056073

AP Reference: XXI BomCom Litho-Mosaic MATSUYAMA WEST
AIRFIELD No. 90.29 - 2589.

9. UNIDENTIFIED INDUSTRY (90.29 - XXI 6096)

AP

139088

AP Reference: XXI BomCom Litho-Mosaic IMABARI AREA
No. 90.29 - Urban.

10. OKAYAMA RR YARDS (90.27 - XXI 6234)

AP

044100

057104

AP Reference: XXI BomCom Litho-Mosaic OKAYAMA AREA
No. 90.27 - Urban.

11. TOYO METAL AND WOOD CO. (A/C), TAKARAZUKA (90.25 -
1707)

AP

120101

AP Reference: XXI BomCom Litho-Mosaic TAKARAZUKA
AREA No. 90.25 - 2137.

12. DAI NIPPON CELLULOID CO. (90.25 - 383)

AP

083112

AP Reference: XXI BomCom Litho-Mosaic SAKAI AREA
No. 90.25 - Urban.

13. TAKADA ALUMINUM MFG. CO. (90.25 - 1710)

AP

066106

AP Reference: XXI BomCom Litho-Mosaic SAKAI AREA
No. 90.25 - Urban.

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Authority NNI 760063

By 21 NARA Date 9-27-05

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F.O. #11

14. OSAKA METAL INDUSTRY CO. (90.25 - 1782)

AP

077038
081045

AP Reference: XXI BomCom Litho-Mosaic SAKAI AREA
No. 90.25 - Urban.

15. MAIZURU NAVAL ARSENAL (90.22 - 1040)

AP

031095

AP Reference: Twentieth Air Force Litho-Mosaic
MAIZURU AREA EAST No. 90.22 - Urban.

16. CHIN MAIZURU RR YARDS (90.22 - Unnumbered)

AP

063047

AP Reference: Twentieth Air Force Litho-Mosaic
MAIZURU AREA EAST No. 90.22 - Urban.

17. TSURUGA RR YARDS (90.22 - 1676)

AP

109055

AP Reference: XXI BomCom Litho-Mosaic TSURUGA AREA
No. 90.22 - Urban.

18. CHEMICAL PLANT, TSURUGA (90.22 - XXI 6126)

AP

084048

AP Reference: XXI BomCom Litho-Mosaic TSURUGA AREA
No. 90.22 - Urban.

19. CONVERTED TEXTILE MILL A/C PARTS, GIFU (90.20 -
Unnumbered)

AP

095047

AP Reference: XXI BomCom Litho-Mosaic GIFU AREA
No. 90.20 - Urban.

20. NAKAJIMA A/C CO., MUSASHINO TAMA PLANT (90.17 - 357)

AP

104131

AP Reference: XXI BomCom Litho-Mosaic TOKYO AREA
SHODA A/C CO. No. 90.17 - 1395.

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By 21 NARA Date 9-27-05

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F.O. #11

21. NIPPON SODA CO., ALUMINUM PLANT (90.11 - 866)

AP

115083

AP Reference: Twentieth Air Force Litho-mosaic
TAKAOKA AREA No. 90.11 - Urban.

(3) Last Resort: Any urban area target of opportunity except
KYOTO, HIROSHIMA, NIIGATA and KOKURA, which are not to be
bombed under any circumstances.

(4) Route:

(a) For Targets 90.32 - 818, - 1844 and - 1880:

Base
IWO JIMA
3301N - 13306E
3356N - 13142E (IP)
Target
Left Turn
3316N - 13154E
IWO JIMA
Base.

(b) For Targets 90.20 - 1737, - Unnumbered and - 1684:

Base
IWO JIMA
3430N - 13725E
3446N - 1371030E (IP)
Target
Left Turn
IWO JIMA
Base.

(c) For Targets 90.10 - 1088, - Unnumbered and - Unnumbered:

Base
IWO JIMA
3545N - 14110E
370630N - 14100E (IP)
Target
Left Turn
3649N - 14048E
3545N - 14105E
IWO JIMA
Base.

(5) Altitudes:

(a) Enroute to target: Below 10,000 ft.

(b) Attack: 28,000 - 30,000 ft. or below cirrus clouds so
as to perform visual bombing.

(c) Enroute from target: At or below 18,000 ft. passing
IWO JIMA.

(6) Bomb Load: As prescribed by C.O., 509th Group.

(7) Method of Attack: By individual aircraft.

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F.O. #11

(8) Bombing Airspeed: 200 MPH CIAS.

(9) Takeoff: 290300King.

d. Omitted.

e. Omitted.

4. No Tactical Mission Numbers will be assigned to these missions. For record purposes, Special Bombing Mission Numbers are assigned as follows:

<u>Special Bombing Mission Number</u>	<u>Target</u>
10	90.32 - 818 90.32 - 1844 90.32 - 1830
11	90.20 - 1737 90.20 - Unnumbered 90.20 - 1684
12	90.10 - 1088 90.10 - Unnumbered 90.10 - Unnumbered

5. a. Twentieth Air Force SOI and SOP for strike reports, contact reports and IFF procedures.

b. Command Post: Hq., Twentieth Air Force, GUAM.

BY COMMAND OF MAJOR GENERAL LEMAY:

A W KISSNER
Brigadier General, USA
Chief of Staff

OFFICIAL:

J B Montgomery
J B MONTGOMERY
Colonel, G.S.C.
D C/S, Operations

DISTRIBUTION:

- 2 - CG, 58th Bomb Wing
- 2 - CG, 73rd Bomb Wing
- 2 - CG, 313th Bomb Wing
- 2 - CG, 314th Bomb Wing
- 2 - CG, 315th Bomb Wing
- 1 - CG, VII Fighter Comd
- 1 - CO, 3rd Photo Recon Sq
- 6 - A-3 Tactics, Twentieth Air Force
- 2 - 33rd SCU, Twentieth Air Force
- 1 - RCM Office, Twentieth Air Force
- 1 - Communications, Twentieth Air Force
- 1 - OAS, Twentieth Air Force
- 2 - CIU, Twentieth Air Force
- 1 - A-2 Reporting, Twentieth Air Force
- 4 - A-2, Twentieth Air Force

- 8 -

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Authority *NNI 760063*

By *21* NARA Date *9-27-05*

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~~TOP SECRET~~

Auth: CG, Twentieth Air Force
Initials: HPK

FIELD ORDERS)
 :
NUMBER 13)

TWENTIETH AIR FORCE
GUAM
2 August 1945 - 1500K

Map: JAPAN Aviation Chart 1:218,880

1. a. Omitted.
b. (1) Omitted.
(2) (a) No friendly aircraft, other than those listed herein, will be within a 50 mile area of any of the targets for this strike during a period of four hours prior to and six hours subsequent to strike time.
(b) Air-Sea Rescue facilities will be provided for this mission through standard channels by Headquarters, Twentieth Air Force.
2. Twentieth Air Force attacks targets in JAPAN on 6 August.
3. a. Omitted
b. Omitted
c. 313th Wing, 509th Group:
 - (1) Primary target: 90.30 - HIROSHIMA URBAN INDUSTRIAL AREA.
 - (a) Aiming point: 063096. Reference: XXI BomCom Litho-Mosaic HIROSHIMA AREA, No. 90.30 - Urban.
 - (b) IP: 3424N - 1330530E.
 - (c) Breakaway (if target is bombed):
Right turn of at least 150 degrees
3400N - 13334E.
 - (2) Secondary target: 90.34 - 168, KOKURA ARSENAL and CITY.
 - (a) Aiming Point: 104082. Reference: XXI BomCom Litho-Mosaic KOKURA ARSENAL, No. 90.34 - 168.
 - (b) IP: 3343N - 1313830E.
 - (c) Breakaway (if target is bombed):
Left turn of at least 150 degrees
3343N - 1313830E.
 - (3) Tertiary target: 90.36 - NAGASAKI URBAN AREA.
 - (a) Aiming Point: 114061. Reference: XXI BomCom Litho-Mosaic NAGASAKI AREA, MITSUBISHI STEEL and ARMS WORKS, No. 90.36 - 546.
 - (b) IP: 3238N - 13039E

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By CAW NARA Date 2/6/90

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By 21 NARA Date 9-27-05

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F.O. #13

(c) Breakaway (if target is bombed)

Left turn of at least 150 degrees
3137N - 13128E.

(4) Force required:

(a) Strike force: 3 A/C

(b) Spare: 1 A/C, which will proceed to IWO JIMA to stand by in case of abort. This A/C will be loaded with full gas load but no bombs.

(c) Weather: 3 A/C, which will be dispatched one to each target at such a time as to be able to relay, from their assigned target, the target weather forecast for strike time, broadcasting this message between 060845K and 060915K. This will enable strike force to select either the secondary or tertiary target in the event the primary is found to be cloud-covered. Each weather A/C will have aboard a weather observer furnished by the 313th Wing.

(5) C.O., 509th Group, will insure that necessary personnel and special equipment are dispatched to IWO JIMA to handle transfer of bomb load to spare A/C in case of abort.

(6) Route:

Base
IWO JIMA
3337N - 13430E (Departure Point)
341530N - 1333330E
IP
Target
Breakaway
IWO JIMA
Base.

(7) Altitudes:

(a) Enroute to target: Below 10,000 ft. until necessary to climb to bombing altitude. Below 5,000 ft. prior to passing Iwo Jima.

(b) Of attack: 28,000 to 30,000 ft.

(c) On route back: At or below 18,000 ft. when passing IWO JIMA.

(8) Time Control: Pass Departure Point at 060915K.

(9) Bombing Airspeed: 200 mph CLAS.

(10) Bomb load and special equipment: As specified by C.O.,
509th Group. visual bombing

(11) Only visual bombing will be accomplished. Strike force will pass sufficiently close to primary target to assure, before going on to secondary target, that visual bombing is not possible on the primary.

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Authority NNI 760063

By 21 NARA Date 9-27-05

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F.O. #13

- (12) Post-strike photography: C.O., 509th Group, will be responsible for briefing and dispatching two F-13 A/C, which will be detached to the 509th Group by the 3rd Photo Recon Sq., for this strike. These A/C will not enter target area until 4 hours after bombs away. To insure this schedule is maintained regardless of whether the strike force has to make use of the spare A/C at IWO JIMA or not, the photo A/C will be required to check in with the ground stations at both TINIAN and IWO JIMA to obtain clearance to proceed past IWO JIMA. If these photo A/C do not receive notification of which target has been bombed, they will photograph all three targets.
- d. Omitted.
- e. Omitted.
- f. 3rd Photo Recon Sq.:
- (1) Dispatch 2 F-13 A/C to NORTH FIELD, TINIAN, to land by 051600K, reporting to C.O., 509th Group, for post-strike photo briefing as specified above in par. 3. c. (12)
- g. CSC, IWO JIMA:
- (1) Participated in event of abort landing at IWO JIMA, making all necessary facilities available upon request of the 509th Group Project Officer.
- (2) Provide clearance to photo A/C, as provided for above in par. 3. c. (12), after assurance from 509th Group Project Officer that no abort has occurred.
4. No Tactical Mission Number is assigned to this mission. For record purposes, Special Bombing Mission Number 13 is assigned.
5. a. (1) Strike reports will be transmitted in accordance with Headquarters, Twentieth Air Force Regulation 100-20, dated 15 May 1945. 313th Wing Air-Ground Station will rebroadcast strike reports via the F method on all 313th Wing strike frequencies.
- (2) Contact reports will be transmitted in accordance with Headquarters, Twentieth Air Force Regulation 100-19, dated 2 July 1945.
- (3) IFF doctrine will be as follows: Turn IFF to position #1 immediately before take-off. Turn IFF off when 50 miles from coast of Japanese mainland. Turn IFF on at land's end (enemy coast) when returning from target. Turn IFF off when landing.
- (4) Channel G (143.01 mcs) of the AN/ARC-3 will be used as inter-plane command channel.
- (5) Retune Channel 7 of AN/ART-13 transmitter of strike aircraft to 7455 kcs. Any strike plane aborting will immediately call the Twentieth Air Force Weather Station, IWO JIMA, call sign OOV181, on 7455kcs and transmit message saying "Aborting". The 313th Wing Ground Station will monitor 7455 kcs and pass any aborting message to C.O. of 509th Group.
- (6) Radio operators of strike aircraft will monitor 7310 kcs and intercept in-flight weather reports from weather planes over target. These weather reports will be addressed to 313th Wing Air-Ground Station, OOV670. The strike aircraft will intercept these in-flight weather reports.

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~~TOP SECRET~~

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Authority NNI 760063

By 21 NARA Date 9-27-05

TOP SECRET

F.O. #13

- (7) Photographic aircraft will return AN/ART-13 channels 1, 3 and 7 as follows: Channel 1 - 3410 kcs; Channel 3 - 10125 kcs; and Channel 7 - 7310 kcs. Photographic aircraft will be controlled by 313th Wing Air-Ground Station, OOV670. Photographic aircraft will monitor appropriate 313th Wing strike frequencies during their entire mission and intercept strike reports as rebroadcast by 313th Wing Air-Ground Station. Strike reports will determine which target will be photographed.
- (8) Photographic aircraft of the 3rd Photo Recon Sq., attached to the 509th Group, will contact the 313th Wing Air-Ground Station, OOV670, on 7310 kcs, and the Twentieth Air Force Weather Station, IWO JIMA, on frequency 7455 kcs, call OOV181, and question both stations as to whether any striking aircraft of the 509th Group have aborted. This will determine whether the photographic aircraft will proceed to target or land at IWO JIMA.
- (9) Annex A, attached hereto, will be the weather code used by the weather aircraft to transmit in-flight weather observations from over the target. The letter scramble indicated on the form will be used. Transmission of weather information will take the following form: letter indicated in column under letter scramble will indicate the weather element being reported. Each letter (weather element) will be followed by a number which indicate the actual condition. These numbers, one through zero, appear at the top of the weather code form. An example of an in-flight weather transmission might be as follows: ~~ØØV67Ø V 21V675 - 16Ø7Ø3Z BT Y2ØKØB1Z ØXØØR1 BT IMI ØØV67Ø V 21V675 - 16Ø7Ø3Z BT Y2ØKØB1ZØXØØR1 BT IR.~~ The above message, when decoded, would indicate the following: low clouds, 1-3/10 small; middle cloud amount, none; height of tops, unknown; high cloud, none; height of base, unknown; height of tops, unknown, advise, bomb secondary; visibility in clear air, clear. This message will be handled by the broadcast method and repeated as shown in the example above.
- (a) Each weather aircraft will be designated a specific target to observe. Each weather aircraft's radio call sign, together with the name of the target assigned to that aircraft, must be carried in both the Pilot's and Radio Operator's Folders. A simple way of designating this would be as follows:

<u>Aircraft Call Sign</u>	<u>Target Observed</u>
21V675	Primary - HIROSHIMA
7V675	Secondary - KOKURA
12V675	Tertiary - NAGASAKI

b. Command Post: Hq., Twentieth Air Force, GUAM.

BY COMMAND OF LIEUTENANT GENERAL TILNINE:

R K TAYLOR
Colonel, Air Corps
Chief of Staff

OFFICIAL:

J B MONTGOMERY
Colonel, G.S.C.
D C/S, Operations

ANNEX "A" - Air to Air Weather Code omitted from this report.

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TOP SECRET

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Authority NNI 760063

By 21 NARA Date 9-27-05

SECRET

SECRET

Auth: CG, Twentieth Air Force
Initials: W.C.K.
Date: 7 August 1945

FIELD ORDERS)
 :
NUMBER 16)

TWENTIETH AIR FORCE
GUAM
7 August 1945 - 1200K

Map: JAPAN Aviation Chart 1:218,880.

1. a. Omitted.
b. (1) Omitted.
(2) Friendly fighters have been requested from the 301st Fighter Wing to escort bombers of the 58th, 73rd, and 313th Wings into the YAWATA AREA.
2. Twentieth Air Force attacks targets in JAPAN on 8 August 1945.
3. a. Omitted.
b. 58th Wing:

- (1) Primary visual target: YAWATA URBAN AREA

MPI

111035
073035
039037

FORCE REQUIRED

2 Groups - Maximum
1 Group - Maximum
1 Group - Maximum

MPI Reference: XXI Bomber Command Litho-Mosaic YAWATA AREA.

- (2) Primary radar target: YAWATA URBAN AREA. MPI: 073035.

- (3) Route:

Base
Assembly Zone I
Reassembly Area (3139N - 12930E)
3235N - 13011E (DP)
3310N - 13020E (IP)
Target
3410N - 13042E
3410N - 13120E
3243N - 13233E
IWO JIMA
Base.

- (4) Altitudes:

- (a) Enroute to target: 3,000 - 3,800 feet and/or 7,000 - 7,800 feet.
- (b) Attack: Lead squadron of each group - 19,000 feet.
- (c) Enroute from target: At or below 18,000 feet passing IWO JIMA.

- (5) Bomb Load:

- (a) 1st, 2nd, and 4th Groups to strike carry M-17 ICs.
- (b) 3rd Group to strike carries M-47 IBs.

- (6) Takeoff: 072355K.

- 1 -

SECRET

DECLASSIFIED

Authority NNI 760063

By 21 NARA Date 9-27-05

SECRET

F.O. #16

c. 73rd Wing:

- (1) Primary visual target: YAWATA URBAN AREA

<u>MPI</u>	<u>FORCE REQUIRED</u>
111035	1 Group - Maximum
073035	2 Groups - Maximum
039037	1 Group - Maximum

MPI Reference: XXI Bomber Command Litho-Mosaic YAWATA AREA.

- (2) Primary radar target: YAWATA URBAN AREA. MPI: 073035.

- (3) Route:

Base
Assembly Zone I
Reassembly Area (3000N - 12955E)
3235N - 13011E (DP)
3310N - 13020E (IP)
Target
3410N - 13042E
3410N - 13120E
3243N - 13233E
IWO JIMA
Base.

- (4) Altitudes:

- (a) Enroute to target: 6,000 - 6,800 feet and/or 9,000 - 9,800 feet.
(b) Attack: Lead squadron of each group - 21,000 feet.
(c) Enroute from target: At or below 18,000 feet passing IWO JIMA.

- (5) Bomb Load: M-17 ICs.

- (6) Takeoff: 072355K.

d. 313th Wing:

- (1) With three bombardment groups:

- (a) Primary visual target: YAWATA URBAN AREA

<u>MPI</u>	<u>FORCE REQUIRED</u>
111035	1 Group - Maximum
073035	1 Group - Maximum
039037	1 Group - Maximum

MPI Reference: XXI Bomber Command Litho-Mosaic YAWATA AREA.

- (b) Primary radar target: YAWATA URBAN AREA. MPI: 073035.

SECRET

F.O. #16

(c) Route:

Base
Assembly Zone I
Reassembly Area (3023N - 13058E)
3235N - 13011E (DP)
3310N - 13020E (IP)
Target
3410N - 13042E
3410N - 13120E
3243N - 13233E
IWO JIMA
Base.

(d) Altitudes:

1. Enroute to target: 5,000 - 5,800 feet and/or 8,000 - 8,800 feet.
2. Attack: Lead squadron of each group - 19,000 feet.
3. Enroute from target: At or below 18,000 feet passing IWO JIMA.

(e) Bomb Load:

1. 1st and 3rd Groups to strike carry M-17 ICs.
2. 2nd Group to strike carries clusters containing M-69 bombs.

(f) Takeoff: 072355K.

(2) With one composite group:

(a) Primary visual targets:

	<u>NAME</u>	<u>NUMBER</u>	<u>AP</u>
1.	SHINKO WOOLEN MILL	90.25 - Unnumbered	039092
2.	FURUKAWA ELECTRICAL CO.	90.25 - 1739	074109
3.	Heavy Industry in YOK- KAICHI HARBOR AREA	90.20 - 1737	072067
4.	Converted Textile Mill	90.20 - Unnumbered	019041
5.	UTSUBE RIVER OIL REFINERY	90.20 - 1684	066009
6.	DAI NIPPON CELLULOID CO.	90.25 - 383	088112
7.	TAKADA ALUMINUM MANUFACTURING CO.	90.25 - 1710	066106
8.	OSAKA METAL INDUSTRY CO.	90.25 - 1782	077038 081045

SECRET

F.O. #16

AP References:

Target 1.: XXI Bomber Command Litho-Mosaic AMAGASAKI AREA, KAWANISHI AIRCRAFT CO., No. 90.25 - 18.

Target 2.: XXI Bomber Command Litho-Mosaic AMAGASAKI OSAKA URBAN AREA, No. 90.25 - URBAN.

Targets 3., 4. and 5.: XXI Bomber Command Litho-Mosaic YOKKAICHI AREA, UTSUBE RIVER OIL REFINERY, No. 90.20 - 1684.

Targets 6., 7. and 8.: Twentieth Air Force Litho-Mosaic SAKAI AREA, No. 90.25 - URBAN.

- (b) Force: One aircraft assigned to each AP except the following, which will have three aircraft apiece assigned:

90.25 - 1739 074109
90.25 - 1782 077038 and 081045

- (c) Secondary visual targets: As specified in paragraph 3. c. (2) of Field Orders Number 11, this headquarters, dated 28 July 1945.

- (d) Last resort targets: Center of any urban area target of opportunity except HIROSHIMA, KYOTO, KOKURA, NAGASAKI and NIIGATA.

- (e) Route:

1. For Targets 90.25 - Unnumbered (SHINKO WOOLEN MILL), and - 1739:

Base
IWO JIMA
341630N - 13655E
3441N - 13550E (IP)
Target
Left Turn
IWO JIMA
Base.

2. For Targets 90.20 - 1737, - Unnumbered (Converted Textile Mill) and - 1684:

Base
IWO JIMA
3430N - 13725E
3446N - 1371030E (IP)
Target
Left Turn
IWO JIMA
Base.

3. For Targets 90.25 - 383, - 1710 and - 1782:

Base
IWO JIMA
3350N - 13445E (Landfall)
3411N - 13444E (IP)
Target
3350N - 13604E (Landsend)
IWO JIMA
Base.

SECRET

F.O. #16

(f) Altitudes:

1. Enroute to target: Below 10,000 feet.
2. Attack: 28,000 - 30,000 feet or below cirrus clouds so as to perform visual bombing.
3. Enroute from target: At or below 18,000 feet passing IWO JIMA.

(g) Bomb Load: As prescribed by C.O., 509th Group.

(h) Method of Attack: By individual aircraft.

(i) Bombing Airspeed: 200 MPH CIAS.

(j) Time Control: Target time approximately 081000K.

e. 314th Wing:

- (1) Primary visual target: 357, NAKAJIMA AIRCRAFT CO.

MPI

030086

FORCE REQUIRED

2 Groups - Maximum

MPI Reference: XXI Bomber Command Litho-Mosaic TOKYO AREA
No. 90.17 - 357.

- (2) Secondary visual and primary radar target: TOKYO ARSENAL
COMPLEX, No. 90.17 - 3600.

- (3) Route:

Base
Assembly Zone I and/or II
3437N - 13805E
3528N - 13835E (IP)
Target
3558N - 13945E
3558N - 14100E
IWO JIMA
Base.

- (4) Altitudes:

- (a) Enroute to target: Not specified.
- (b) Attack: 20,000 feet.
- (c) Enroute from target: At or below 18,000 feet passing IWO JIMA.

- (5) Bomb Load: 2,000 pound GPs fused 1/10 nose and 1/40 tail.

- (6) Takeoff: 080930K.

f. Omitted.

g. Omitted.

h. Omitted.

SECRET

F.O. #16

- x. (1) Method of Attack (bombardment groups): By column of squadrons timed through common departure point.
- (2) In the event weather prohibits assembly of bombardment groups at assigned wing assembly areas, all aircraft will proceed to departure point at bombing altitudes and use that as a secondary reassembly area.
- (3) In the event radar bombing by individual aircraft is necessary, the 58th, 73rd and 313th (bombardment groups) Wings will bomb from 21,000 feet.
- (4) Bomb Fusing: M-47 IBs - instantaneous nose; all clusters - to open 5,000 feet above the target.
- (5) Intervalometer Setting: M-47 IBs - 75 feet; all clusters - 35 feet.

4. a. Tactical Mission Numbers:

YAWATA URBAN AREA - No. 319
357 (NAKAJIMA A/C CO.) - No. 320.

- b. No Tactical Mission Numbers will be assigned to missions accomplished by the composite group of the 313th Wing under paragraph 3. d. (2) above. For record purposes, Special Bombing Mission Numbers are assigned as follows:

<u>Special Bombing Mission Number</u>	<u>Target</u>
14	90.25 - Unnumbered 90.25 - 1739
15	90.20 - 1737 90.20 - Unnumbered 90.20 - 1684
16	90.20 - 383 90.20 - 1710 90.20 - 1782

- 5. a. (1) Twentieth Air Force SOI and SOP for strike reports, contact reports and IFF procedures.
- (2) Each flight squadron will be equipped to barrage jam the region 190-210 megacycles.
- (3) Observations of the extent and reliability of the barrage will be made while over the target.
- (4) Spot jamming will be conducted over the frequency ranges 180-190 and 210-220 megacycles as desired by the Wing Commanders and as governed by the capacity of each wing.
- (5) Jammers will be kept in operation at all times when closer than 50 miles to the mainland and will be turned off at all other times except for preflight and postflight frequency checks which are to be made on the ground while the jammers are installed in the airplanes.

b. Command Post: Headquarters, Twentieth Air Force, GUAM.

SECRET

F.O. #16

BY COMMAND OF LIEUTENANT GENERAL TWINING:

R K TAYLOR
Colonel, Air Corps
Chief of Staff

OFFICIAL:

J. B. Montgomery
J B MONTGOMERY
Colonel, G.S.C.
D C/S, Operations

DISTRIBUTION:

2 - CG, 58th Bomb Wing
2 - CG, 73rd Bomb Wing
2 - CG, 313th Bomb Wing
2 - CG, 314th Bomb Wing
2 - CG, 315th Bomb Wing
1 - CG, VII Fighter Command
1 - CO, 3rd Photo Recon Squadron
6 - A-3 Tactics, Twentieth Air Force
2 - 33rd SCU, Twentieth Air Force
1 - RCM Office, Twentieth Air Force
1 - Communications, Twentieth Air Force
1 - OAS, Twentieth Air Force
2 - CIU, Twentieth Air Force
1 - A-2 Reporting, Twentieth Air Force
4 - A-2, Twentieth Air Force

- 7 -

SECRET

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Authority NNI 760063

By 21 NARA Date 9-27-05

~~TOP SECRET~~

TOP SECRET

Auth: CG, Twentieth Air Force

Initials: W.S.

Date: 8 August 1945

FIELD ORDERS)

NUMBER 17)

TWENTIETH AIR FORCE

GUAM

8 August 1945 - 0800K

Map: JAPAN Aviation Chart 1:218,880.

1. a. Omitted.

b. (1) Omitted.

(2) (a) No friendly aircraft, other than those listed herein, will be within a 50 mile area of either of the targets for this strike during a period of four hours prior to and four hours subsequent to strike time, except for one routine weather aircraft of this command. In no case will ~~any~~ friendly aircraft fly at any time into smoke column resulting from this strike.

(b) Air-Sea Rescue facilities will be provided for this mission through standard channels by Headquarters, Twentieth Air Force.

(c) An incipient storm developing southeast of IWO JIMA and moving west, together with a concurrent strike by other aircraft of this command, will necessitate scheduling aircraft of the 509th Group west of IWO JIMA on the route to the target.

2. Twentieth Air Force attacks targets in JAPAN on 9 August 1945.

3. a. Omitted.

b. Omitted.

c. 313th Wing, 509th Group:

(1) Primary target: 90.34 - 168 KOKURA ARSENAL and CITY.

(a) Aiming Point: 104082. Reference: XXI BomCom Litho-Mosaic KOKURA ARSENAL, No. 90.34 - 168.

(b) Checkpoint: 3243N - 13233E.

IP: 3343N - 1313830E.

(c) Breakaway (if target is bombed):

Left turn of at least 150 degrees
3343N - 1313830E.

(2) Secondary target: 90.36 NAGASAKI URBAN AREA.

(a) Aiming Point: 114061. Reference: XXI BomCom Litho-Mosaic NAGASAKI AREA, MITSUBISHI STEEL and ARMS WORKS, No. 90.36 - 546.

(b) Checkpoint: 3225N - 13141E.

IP: 3238N - 13039E.

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Authority NNI 760063

By 21 NARA Date 9-27-05

~~TOP SECRET~~

- (c) Breakaway (if target is bombed):
Left turn of at least 150 degrees
3137N - 13128E.
- (3) Omitted.
- (4) Force required:
- (a) Strike force: 3 A/C.
- (b) Spare: 1 A/C, which will proceed to IWO JIMA to stand by in case of abort. This A/C will be loaded with full gas load but no bombs.
- (c) Weather: 2 A/C, which will be dispatched one to each target at such a time as to be able to relay, from their assigned target, the target weather forecast for strike time, broadcasting this message between 090915K and 090945K. This will enable strike force to select either the primary or secondary target for best visual bombing. Each weather aircraft will have aboard a weather observer furnished by the 313th Wing.
- (5) C.O., 509th Group, will insure that necessary personnel and special equipment are dispatched to IWO JIMA to handle transfer of bomb load to spare aircraft in case of abort.
- (6) Route:
- Base
3020N - 13032E (Assembly Point & Departure Point) (YAKU-SHIMA)
Checkpoint
IP
Target
Breakaway
IWO JIMA
Base.
- (7) Altitudes:
- (a) Enroute to target: Below 10,000 feet until necessary to climb to bombing altitude. Below 5,000 feet prior to passing IWO JIMA.
- (b) Of attack: 28,000 to 30,000 feet.
- (c) On route back: At or below 18,000 feet passing IWO JIMA.
- (8) Time Control: Pass Departure Point at 090945K.
- (9) Bombing Airspeed: 200 mph CLAS.
- (10) Bomb load and special equipment: As specified by C.O., 509th Group.
- (11) Post-strike photography: C.O., 509th Group, will be responsible for briefing and dispatching two F-13 aircraft, which will be detached to the 509th Group by the 3rd Photo Recon Sq., for this strike. These aircraft will not enter target area until 4 hours after bombs away. To insure schedule is maintained regardless of whether the strike force has to make

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~~TOP SECRET~~

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Authority NNI 760063

By 21 NARA Date 9-27-05

~~TOP SECRET~~

use of the spare aircraft at IWO JIMA or not, the photo aircraft will be required to check in with ground stations at both TINIAN and IWO JIMA to obtain clearance to proceed past IWO JIMA. If these photo aircraft do not receive notification of which target has been bombed, they will photograph both targets. If they photograph KOKURA, they will also get post-strike coverage of YAWATA.

- (12) Only visual bombing will be accomplished.
- d. Omitted.
- e. Omitted.
- f. 3rd Photo Recon Sq.:
 - (1) Dispatch 2 F-13 A/C to NORTH FIELD, TINIAN, to land by 081600K, reporting to C.O., 509th Group, for post-strike photo briefing as specified in par. 3. c. (11).
- g. CSC, IWO JIMA:
 - (1) Participate in event of abort landing at IWO JIMA, making all necessary facilities available upon request of the 509th Group Project Officer.
 - (2) Provide clearance to photo A/C, as provided for above in par. 3. c. (11) after assurance from 509th Group Project Officer that no abort has occurred.
- 4. No Tactical Mission Number is assigned to this mission. For record purposes, Special Bombing Mission Number 16 is assigned.
- 5. a. (1) Strike reports will be transmitted in accordance with Headquarters, Twentieth Air Force Regulation 100-20, dated 15 May 1945. 313th Wing Air-Ground Station will rebroadcast strike reports via the F method on all 313th Wing strike frequencies.
- (2) Contact reports will be transmitted in accordance with Headquarters, Twentieth Air Force Regulation 100-19, dated 2 July 1945.
- (3) In bombs away report from strike force, direct that one of these words be included at end of message:
 - (a) "High" (indicating high order detonation).
 - (b) "Low" (indicating low order detonation).
- (4) IFF doctrine will be as follows: Turn IFF to Position #1 immediately before takeoff. Turn IFF off when 50 miles from coast of Japanese mainland. Turn IFF on at land's end (enemy coast) when returning from target. Turn IFF off when landing.
- (5) Channel G (143.01 mcs) of the AN/ARC-13 will be used as inter-plane command channel.
- (6) Retune Channel 7 of AN/ART-13 transmitter of strike aircraft to 7455 kcs. Any strike plane aborting will immediately call the Twentieth Air Force Weather Station, IWO JIMA, call sign

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~~TOP SECRET~~

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Authority NNI 760063

By 21 NARA Date 9-27-05

~~TOP SECRET~~

OOV181, on 7455kcs and transmit message saying "aborting". The 313th Wing Ground Station will monitor 7455 kcs and pass any aborting message to C.O., 509th Group.

- (7) Radio operators of strike aircraft will monitor 7310 kcs and intercept in-flight weather reports from weather planes over the target. These weather reports will be addressed to 313th Wing Air-Ground Station, OOV670.
- (8) Photographic aircraft will return AN/ART-13 Channels 1, 3 and 7, as follows: Channel 1 - 3410 kcs; Channel 3 - 10125 kcs; and Channel 7 - 7310 kcs. Photographic aircraft will be controlled by 313th Wing Air-Ground Station, OOV670. Photographic aircraft will monitor appropriate 313th Wing strike frequencies during their entire mission and intercept strike reports as rebroadcast by 313th Wing Air-Ground Station. Strike reports will determine which target will be photographed.
- (9) Photographic aircraft of the 3rd Photo Recon Sq., attached to the 509th Group, will contact the 313th Wing Air-Ground Station, OOV670, on 7310 kcs, and the Twentieth Air Force Weather Station, IWO JIMA, on frequency 7455 kcs, call OOV181, and question both stations as to whether any striking aircraft of the 509th Group have aborted. This will determine whether the photographic aircraft will proceed to target or land at IWO JIMA.
- (10) Annex A, attached hereto, will be the weather code used by the weather aircraft to transmit in-flight weather observations from over the target. The letter scramble indicated on the form will be used. Transmission of weather information will take the following form: letter indicated in column under letter scramble will indicate the weather element being reported. Each letter (weather element) will be followed by a number of which indicates the actual condition. These numbers, one through zero, appear at the top of the weather code form. An example of an in-flight weather transmission might be as follows: OOV670 V 21V675 - 160703Z BT Y2Q1KOB1ZOXOC2R1 BT IMI OOV670 V 21V 675 - 160703Z BT Y2Q1KOB1ZOXOC2R1 BT AR. The above message, when decoded, would indicate the following: low clouds, 1 - 3/10 small; middle cloud amount, none; height of tops, unknown; high cloud, none; height of base, unknown; height of tops, unknown; advice, bomb secondary; visibility in clear air, clear. This message will be handled by the broadcast method and repeated as shown in the example above.
 - (a) Each weather aircraft will be designated a specific target to observe, the one with the lower call sign being dispatched to the primary target area.

b. Command Post: Hq., Twentieth Air Force, GUAM.

BY COMMAND OF LIEUTENANT GENERAL TWINING:

R K TAYLOR
Colonel, Air Corps
Chief of Staff

OFFICIAL:

J B Montgomery
J B MONTGOMERY
Colonel, GSC
D C/S, Operations

ANNEX "A" - Air to Air Weather Code -- not included...

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~~TOP SECRET~~

DECLASSIFIED

Authority NND 760063

By 21 NARA Date 9-27-05

SECRET

SECRET

AUTH: CG, Twentieth Air Force
Initials: RBP
Date: 13 August 1945

FIELD ORDERS)
NUMBER 20)

TWENTIETH AIR FORCE
GUAM
13 August 1945 - 1200K

Map: JAPAN Aviation Chart 1:218,880.

1. Omitted.
 2. Twentieth Air Force attacks KUMAGAYA URBAN AREA; ISIZAKI URBAN AREA; 90.32-671; 90.25-382; 90.30-2202; and 90.6-1066 with a maximum effort on 14/15 August 1945
 3. a. VII Fighter Command:
 - (1) 2 groups of fighters will escort the 73rd Wing.
 - (2) 2 groups of fighters will make a sweep on the NAGOYA AREA.
- b. 58th Wing:
- (1) Primary Visual and Radar: 90.32-671 HIKARI NAVAL ARSENAL

MPI

083051
093034
111033

FORCE REQUIRED

1 Group - Maximum
2 Groups - Maximum
1 Group - Maximum

MPI Reference: XXI Bomber Command Litho-Mosaic HIKARI NAVAL ARSENAL 90.32-671.

- (2) Route:

Base
Assembly Area No. 1
3243N - 13233E (Reassembly)
3256N - 1320530E (D.P.)
3324N - 1314230E (I.P.)
Target
Right Turn
IWO JIMA
Base.

- (3) Altitudes:

(a) Enroute: 5,000 - 5,800 feet and/or 7,000 - 7,800 feet.
(b) Attack: Base 15,000 feet.

- (4) Bomb Load: 500 lb CP's fused 1/100 nose and non-delay tail.

- (5) Take-off: 140500K.

- c. 73rd Wing:

- (1) Primary Visual: 90.25-382 OSAKA ARMY ARSENAL

MPI

119107
118112

FORCE REQUIRED

3 Groups - Maximum
1 Group - Maximum

MPI Reference: XXI Bomber Command Litho-Mosaic OSAKA AREA 90.25 URBAN.

- (2) Secondary Visual: 90.24-2140/1141 FUJI TEXTILE MILL.

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By 21 NARA Date 9-27-08

F.O. #20

MPI

FORCE REQUIRED

105074
083082

2 Groups - Maximum
2 Groups - Maximum

MPI Reference: XXI Bomber Command Litho-Mosaic NAGOYA NORTH
90.20-2140.

(3) Primary Radar: 90.20-1635 NAKIJIMA A/C CO.

MPI: Center of return.

(4) Route:

Secondary Visual

Base
Assembly No. 1
3320N - 13435E (Reassembly)
3350N - 13445E (D.P.)
3416N - 13504E (I.P.)
Target
3441N - 13545E
3353N - 13608E
IWO JIMA
Base.

From Target No. 382
To 3500N - 13532E
351230N - 13607E (I.P.)
Target No. 2140/1141
3525N - 13715E
3438N - 13805E
IWO JIMA
Base.

(5) Altitudes:

(a) Enroute to target: 6,000 - 6,800 feet; 8,000 - 8,800 feet.

(b) Attack: Base 20,000 feet.

(6) Bomb Load: 2,000 lb GP's fused 1/40 nose - 1/40 tail.

(7) D-Hour: 141400K

d. (1) 313th Wing:

(a) Primary Visual Target: 90.30-2202 MARIFU RAILROAD YARDS

MPI

FORCE REQUIRED

089123

3 Groups - Maximum

MPI Reference: Twentieth Air Force Litho-Mosaic IWAKUNI
AREA 90.30-XXI 6130.

(b) Secondary Visual and Primary Radar Target: 90.30 OTAKE
ARMY DEPOT

MPI

FORCE REQUIRED

103117

3 Groups - Maximum

MPI Reference: XXI Bomber Command Litho-Mosaic OTAKE OIL
REFINERY 90.30-2121.

(c) Route:

Base
Assembly Zone I
3243N - 13233E (Reassembly Area)
3306N - 13201E (D.P.)
3343N - 13209E (I.P.)
Target
3432N - 13212E
3432N - 13240E
3333N - 13419E
IWO JIMA
Base

SECRET

F.O. #20

(d) Altitudes:

- 1. Enroute to target: 5,000 - 5,800 feet; 7,000 - 7,800 feet.
- 2. Attack: 15,000 feet.

(e) Bomb Load: 500 lb GP's fused 1/40 nose, 1/40 tail. Intervalometer setting - 25 feet.

(f) D-Hour: 141230K.

(2) With one composite group:

(a) Primary Visual Targets:

<u>NAME</u>	<u>NUMBER</u>	<u>AP</u>
<u>1.</u> NAGOYA ARSENAL, TORII-MATSU FACTORY	90.20-200	120068 119080 123077 124084
<u>2.</u> TOYODO AUTO WORKS, KARIYA PLANT	90.20-1140	085101 090099 093098
<u>3.</u> KOROMO URBAN AREA	90.20-1139	105014 106010 109007

AP References:

Target 1.: Twentieth Air Force Litho-Mosaic 90.20-200 NAGOYA ARSENAL, TORIIMATSU FACTORY.

Target 2.: Twentieth Air Force Litho-Mosaic 90.20-1140 TOYODO AUTO WORKS, KARIYA PLANT.

Target 3.: Twentieth Air Force Litho-Mosaic 90.20-1139 KOROMO AREA - URBAN.

Route:

Target 1.:

Base
IWO JIMA
3458N - 13555E (D.P.)
3513N - 13607E (I.P.)
Target 200
3525N - 13715E
3438N - 13805E (Lands End)
IWO JIMA
Base.

Target 2.:

Base
IWO JIMA
3407N - 13618E (D.P.)
343530N - 13639E (I.P.)
Target 1140
3452N - 13750E
Right Turn
IWO JIMA
Base.

F.O. # 20

Target 3::

Base
 IWO JIMA
 3407N - 13618E (D.P.)
 343530N - 13639E (I.P.)
 Target 1139
 3450N - 13800E
 Fight Turn
 IWO JIMA
 Base.

(b) Secondary Visual Targets:

<u>NAME</u>	<u>NUMBER</u>	<u>AP</u>
<u>4</u> . NAKAJIMA AIRCRAFT CO.	90.17-356	140088 141092 144091 145090
<u>5</u> . YOKOSUKA AREA	90.17-282	053060 053065 057057
<u>6</u> . OMIYA AREA	90.17-2097	036059 036062 037066

AP References:

Target 4:: Twentieth Air Force Litho-Mosaic 90.17-357
 MUSASHINO PLANT.

Target 5:: Twentieth Air Force Litho-Mosaic 90.17-282
 YOKOSUKA AREA.

Target 6:: Twentieth Air Force Litho-Mosaic 90.17-2097
 OMIYA AREA.

Route:

Target 4::

Target 200
 3528N - 13835E (I.P.)
 Target 356
 3558N - 13950E
 3558N - 14100E
 IWO JIMA
 Base.

Target 5::

Target 1140
 345230N - 1384530E
 3503N - 13906E (I.P.)
 Target 282
 3507N - 14009E
 IWO JIMA
 Base.

Target 6::

Target 1139
 3528N - 13835E (I.P.)
 Target 2097
 3558N - 14100E
 IWO JIMA
 Base.

F.O. #20

- (c) Force: One aircraft assigned to each AP.
- (d) Primary Radar Target: TOKYO ARSENAL COMPLEX. AP 056055.
Litho-Mosaic Reference: Twentieth Air Force 90.17 - URBAN
- (e) Last Resort Targets: Center of any urban area target of opportunity except HIROSHIMA, KYOTO, KOKURA, NAGASAKI and NIIGATA.
- (f) Altitudes:
 - 1. Enroute to target: Below 10,000 feet.
 - 2. attack: 28,000 - 30,000 feet or below cirrus clouds so as to perform visual bombing.
 - 3. Enroute from target: At or below 18,000 feet passing IWO JIMA.
- (g) Bomb Load: As prescribed by Commanding Officer, 509th Group.
- (h) Method of Attack: By individual aircraft.
- (i) Bombing Airspeed: 200 MPH CIAS.
- (j) Time Control: Target time approximately 141630K.

f. 314th Wing:

(1) Primary Visual and Radar Targets:

- Force (1) ISEZAKI URBAN AREA.
- Force (2) KUMAGAYA URBAN AREA.

<u>MPI</u>	<u>FORCE REQUIRED</u>
Force (1) 100091	2 Groups - Maximum
Force (2) 095065	2 Groups - Maximum

MPI Reference:

- Force (1) Twentieth Air Force Litho-Mosaic ISEZAKI AREA 90.13 URBAN.
- Force (2) Twentieth Air Force Litho-Mosaic, KUMAGAYA AREA 90.13 URBAN.

(2) Routes:

Force (1)	Force (2)
Base	Base
IWO JIMA	IWO JIMA
3545N - 14105E	3545N - 14105E
3609N - 14019E (I.P.)	3609N - 14019E (I.P.)
Target (3618N - 13910E)	Target (3608N - 13923E)
Left Turn	Left Turn
3438N 13854E	3438N - 13854E
IWO JIMA	IWO JIMA
Base.	Base.

(3) Altitudes:

- (a) Enroute to target: 6,000 - 6,800 feet; 8,000 - 8,800 feet.
- (b) Attack: Force (1) 15,000 feet to 15,800 feet
Force (2) 14,000 feet to 14,800 feet.

- (4) Bomb Load: M-47IB's; M-17 IC's; and E-46 IC's.
All clusters fused to open 5,000 feet above target.

F.O. #20

- (5) Each force will send out 12 pathfinders to strike target first.
- (6) Force (1) will dispatch two special jamming airplanes to orbit the point 3615N - 13923E with a ten mile radius at altitudes of 18,000 feet and 18,500 feet. These airplanes will be equipped to barrage the 72-84 Mc and 190-210 Mc regions and to spot jam any gunlaying or searchlight radars appearing outside the barrage. Additional quantities of rope will be carried by these airplanes.
- (7) Bombing Airspeed: 215 MPH CIAS
- (8) Take-off: 141730K.

g. 315th Wing:

- (1) Primary Visual and Radar Target: 1066-NIPPON OIL CO. REFINERY

MPI

FORCE REQUIRED

074126

4 Groups - Maximum

MPI Reference: Twentieth Air Force Litho-Mosaic TSUCHIZAKE AREA, 90.6 UPB N.

- (2) Route:

Base
 IWO JIMA
 3658N - 14054E
 3827N - 1391430E (I.P.)
 Target (3945N - 14004E)
 3816N - 14131E
 IWO JIMA
 Base

- (3) Altitudes:

- (a) Enroute to target: 5,000 - 5,800 feet; 7,000 - 7,800 feet.
- (b) Attack: 10,000 feet to 11,000 feet.

- (4) Bomb Load:

- (a) 100 lb GP's using T-19 adapters to extent available, remainder 250 lb GP's.
- (b) Fusing: No nose fuse and non-delay tail.
- (c) Intervalometer Setting: 35 feet.

- (5) Take-off: 141630K.

x. Omitted.

4. Tactical Mission Numbers:

90.32-671	-	No. 325
90.25-382	-	No. 326
90.30-2202	-	No. 327
90.6 - 1066	-	No. 328
KUMAGAYA	-	No. 329
ISEZAKI	-	No. 330

- 5. a. (1) Twentieth Air Force SOI and SOP for strike reports, contact reports, and IFF procedures.
- (2) Each flight squadron will be equipped to barrage jam the region 190-210 Mc.

SECRET

F.O. # 20

(3) Observations of the extent and reliability of the barrage will be made while over the target.

b. Command Post: Headquarters Twentieth Air Force, GUAM.

BY COMMAND OF LIEUTENANT GENERAL TWINING:

R K TAYLOR
Colonel, Air Corps
Chief of Staff

OFFICIAL:

William Blanchard

J B MONTGOMERY
Colonel, G.S.C.
D C/S, Operations

DISTRIBUTION:

2 - CG, 58th Bomb Wing
2 - CG, 73rd Bomb Wing
2 - CG, 313th Bomb Wing
2 - CG, 314th Bomb Wing
2 - CG, 315th Bomb Wing
1 - CG, VII Fighter Command
1 - CO, 3rd Photo Recon Squadron
6 - A-3 Tactics, Twentieth Air Force
2 - 33rd SCU, Twentieth Air Force
1 - RCM Office, Twentieth Air Force
1 - Communications, Twentieth Air Force
1 - OAS, Twentieth Air Force
2 - CIU, Twentieth Air Force
1 - A-2 Reporting, Twentieth Air Force
4 - A-2, Twentieth Air Force

- 7 -

SECRET

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By *21* NARA Date *9-27-05*

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ANNEX

G

DISTRIBUTION

(SPECIAL)

Special Bombing Missions No. 1 through 18

20 July to 14 August 1945

-141-

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By 26 NARA Date 9-27-05

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**SUPPLEMENTARY TABLE
TWENTIETH AIR FORCE
SPECIAL BOMBING MISSIONS
509TH COMPOSITE GROUP**

SECRET
By Authority of
The Commanding General
USASTAF
1 October 1945 *A.P.C.*

TARGET NO.	TARGET NAME	MISSION NUMBER	DATE	A/C OVER TARGET	BOMBING ALTITUDE	NO. BOMBS ON TARGET *	METHOD OF BOMBING	M.F.I.	AIMING POINT	RESULTS OF BOMBING	U.S. REPORTS
									20TH AF LIGHT MOSAIC	OBSERVED	
90.14-Urban	OTSU	1	7-20-45	3	28,000	1 Spec	R		Center of each U/A	None	None
90.17-Urban	YOKO		7-20-45		28,000	1 Spec	R			None	No Post Strike Photos
90.10-Urban	TAIRA		7-20-45		28,000	1 Spec	R			None	None
90.10-2216	LIGHT INDUSTRY, FUKUSHIMA	2	7-20-45	2	25,000	1 Spec	R		044112	FUKUSHIMA AREA	None
90.10-1665	SHINAGAWA MANUFACTURING PLANT		7-20-45						060113	90.14-Urban	None
90.9-1886	AYAMI WOV. CO., TSUGAMI	3	7-20-45	2	28,000	1 Spec	R		120798	MAGAWA	None
90.10-Urban	TAIRA		7-20-45		30,000	1 Spec	R				None
90.11-1945	PONIKAWA STEEL, HIROSHI-URASHI	4	7-20-45	3	31,100 to 31,200	1 Spec	V		Center of U/A	None	None
90.11-1961	NICHIMAN ALUMINUM CO., TOYAMA		7-20-45			1 Spec	V		153070	TOYAMA Area "B"	None
90.11-6253	NIPPON SODA CO., TOYAMA		7-20-45			1 Spec	V		098081	90.11-Urban	Hit 4,000' over target due to mech. failure Hit 500' S of S corner of tgt.
90.25-923	NUMAYAMA COPPER MINE, NIINAMA	5	7-24-45	3	28,000	1 Spec	V		051125	NIINAMA	None
90.29-924	KUMIYAMA ALUMINUM CO., NIINAMA		7-24-45		28,000	2 Spec	V		048117 078128	90.29-Urban	None
90.25-538	I.J.M. SHOPS	6	7-24-45	4	28,700	1 Spec	V		007131	KOBE Area	None
90.25-11	KAWASAKI LOCOMOTIVE CAR CO.,		7-24-45		28,400	1 Spec	V		041117	90.25-Urban	None
90.25-169	NIHONREI HEAVY INDUSTRY		7-24-45		28,200	1 Spec	V		058095		None
90.25-1768	KOBE STEEL WORKS (ALL IN KOBE)		7-24-45		28,000	1 Spec	V		146125		None
90.25-1737	HEAVY INDUSTRY, YOKKAICHI	7	7-24-45	3	28,000	1 Spec	R		072087	YOKKAICHI Area	None
90.25-	TOYO RAYON PLANT, SAKAI		7-24-45		28,000	1 Spec	V		Unspecified		None
90.20-Urban	OGARI		7-24-45		28,000	1 Spec	V				Excellent
90.9-Urban	KASHIWAZAKI	8	7-25-45	4	27,000	1 Spec	R		Center of U/A	None	None
90.9-	U/I 37-43N 139-31E		7-25-45		28,000	1 Spec	V		Center of U/A	None	Excellent
90.14-1492	HITACHI COPPER		7-26-45		28,000	1 Spec	V		Unspecified		None
90.10-Urban	TAIRA IND. AREA		7-26-45		27,000	1 Spec	V		Unspecified		Good
90.18-Urban	SHIMOGA	9	7-26-45	6	28,000	1 Spec	V		Center of U/A	None	Excellent
90.20-Urban	NAGOYA		7-26-45		27,000	1 Spec	R		Center of U/A	None	Excellent
90.21-Urban	NAMAMATSU		7-26-45		28,000	1 Spec	V		Center of U/A	None	Excellent
90.11-Urban	TOYAMA		7-26-45		29,000	1 Spec	R		Center of U/A	None	Excellent
90.25-Urban	OSAKA		7-26-45		29,000	1 Spec	V		Center of U/A	None	None
90.18-	YAZU RR YARDS		7-26-45		28,000	1 Spec	R		Unspecified		None
90.32-518	URS NITROGEN FERTILIZER CO.	10	7-29-45	3	27,700	1 Spec	V		110595	URS Area	None
90.32-1844	URS SODA CO.		7-29-45		26,800	1 Spec	V		106099		Excellent
90.32-1890	NIPPON MOTOR OIL COMPANY		7-29-45		28,000	1 Spec	V		120064 117079		Excellent Good
90.10-	KORIYAMA LIGHT INDUSTRY	11	7-29-45	3	28,800	1 Spec	R		058125	KORIYAMA	Excellent
90.17-357	NAKAJIMA A/C ENGINE PLANT		7-29-45		29,300	1 Spec	R		104131	TOYO Area	None
90.10-	KORIYAMA MARSHALLING YARDS		7-29-45		29,800	1 Spec	R		058085	KORIYAMA	Excellent
90.25-	NAGAYAMA OIL REFINERY	12	7-29-45	2	30,000	1 Spec	V		Unspecified		None
90.22-1041	NAIHO RAYON BASE		7-29-45		26,700	1 Spec	V		Unspecified		Excellent
90.30-	HIROSHIMA	13	8-8-45	3	30,200	1 Atomic			053095	HIROSHIMA Area	Excellent
90.31-8278	U/I ASSEMBLY PLANT, UWAJIMA	14	8-8-45	3	29,000	1 Spec	R		053085	90.30-Urban	U/A #12, 4.1 sq mi or 30% destroyed/damaged
90.22-6126	CHEMICAL PLANT, TSUBOYA		8-8-45		30,000	1 Spec	R		054048	90.31-Urban	Good
90.27-Urban	YOKUSUBA		8-8-45		28,500	1 Spec	R			TSUBOYA Area	Excellent
90.35-	YOKKAICHI HEAVY INDUSTRIES	15	8-8-45	2	28,000	1 Spec	R		Center of U/A		None
90.20-1684	UTSUNO OIL REFINERY		8-8-45		29,000	1 Spec	R		072087	YOKKAICHI Area	Excellent
90.26-Urban	MIZUKAWA	16	8-9-45	3	29,000	1 Atomic			018041 066009	90.20-1684	None
90.35-200	NAGOYA ARSENAL, TORIMATSU PLANT	17	8-14-45	4	29,000	4 Spec			114081	MAGAWA Area	U/A #19, 0.38 sq mi or 30% destroyed/damaged
90.35-1169	TOYODA AUTO WORKS, KOROYO	18	8-14-45	3	29,000 to 30,000	3 Spec			127088 119080 123077 124084 126014 106010 108007	MAGAWA Arsenal, TORIMATSU Factory	2 Excellent 1 Poor 1 Unobserved
										KOROYO Urban Area	1 Good 2 Poor

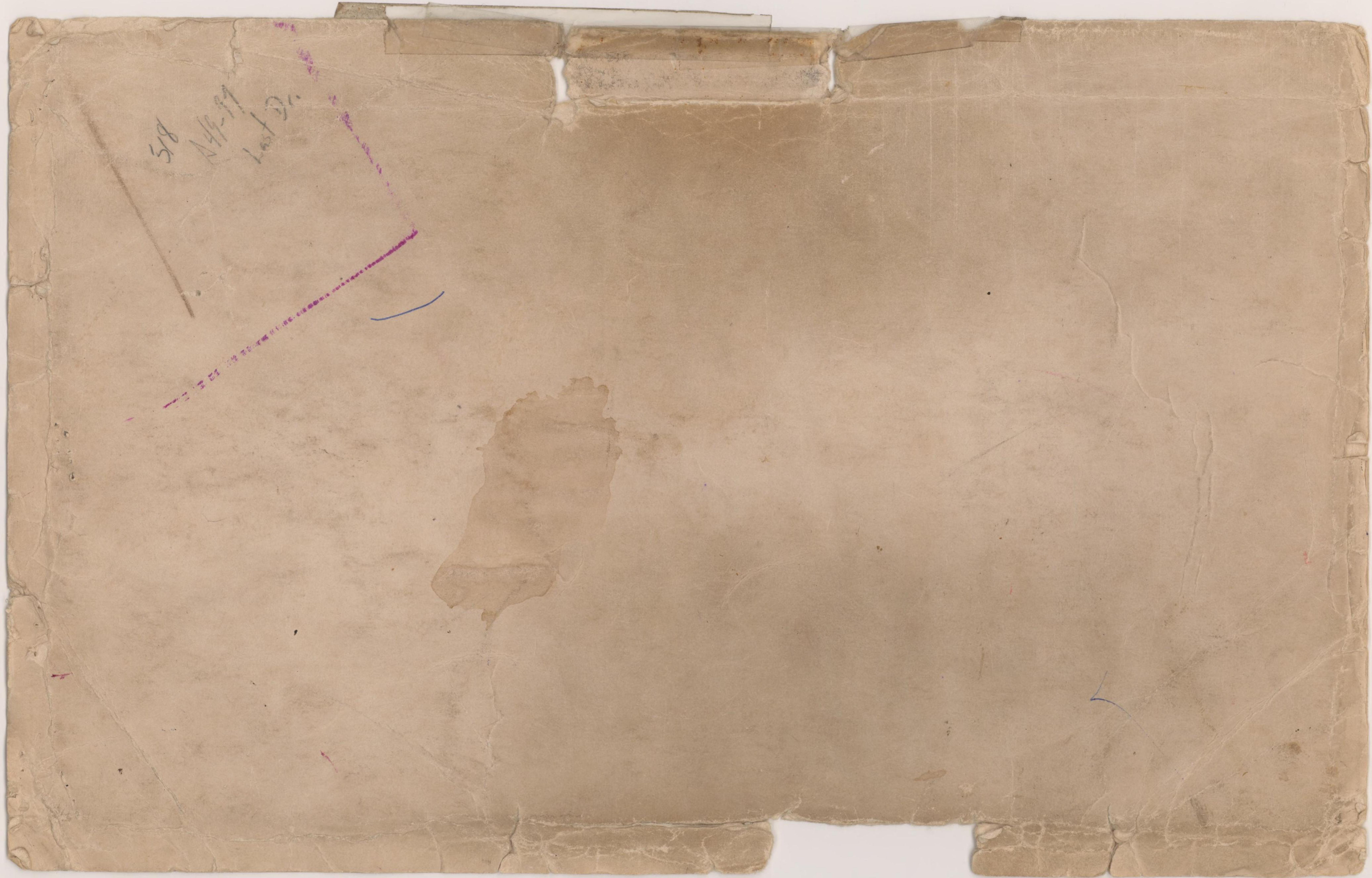
* Specifications for individual bombs classified TOP SECRET

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TARGET SECTION
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HQ, USASTAF

SOURCE: 20 AF Mission Reports,
Field Orders, Damage
Assessment Reports.



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