Wanishi Iron Works - continued.

45. Office

46. Open hearth repair shop

47-50 Storage

51-63 Storage

64. Carpenter shop

65-75 Storage

76. Dock storage area

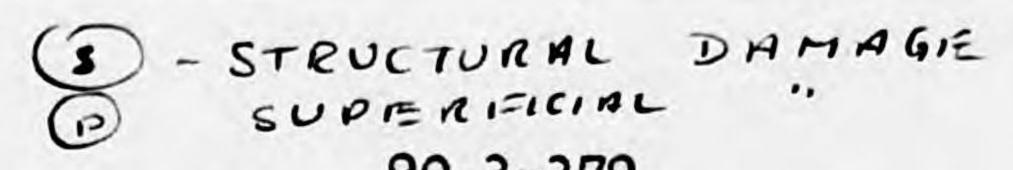
77.	Naka :	Section	Sintering Plant		
78.	**		Dock, Ore and Limestone storage		
£ 79.		**	Blast Furnaces 1, 2, 3		
80.	**	**	Power Plant		
81.	**	**	By-Products Plants		
82.	**	**	Coke Oven Batteries		
83.		••	Coal Washing Plant		
84.		**	Coal Storage		
/85. W	Vanishi	. "	Ore Roasting Plant		
86.	**	••	Storage Offices, Workmens Rest and Lunch Room		
87.	11	**	Power House		
88.	**	**	Blast Furnaces 1,2,3,4,		
89.	**		Sintering Plant and Conveyor Yard		
90.	•	11	Ore storage		
91.		11	Office and workemens building area		
92.	11		By-Products Plants		
93.	11	**	Coke Oven Batteries 1,2,3,4.		
94.	11	**	R.R. Storage yards		
95.	**		Car Treating Building		

90.3-379 MURORAN - WANISHI IRON WORKS

	andreoreta, - marine	MURORAN - WANISHI IRON WORKS				
Bldg.		No.	Damage	Roof area Damage		
No.	Name	Hits	Cratering Hit	(P) 1000°		
2	Handling and Storage	7	N.M.	(P) 180°		
3	Light & Midium Rolling Mill	2	3 cratering hits	(8)		
5	Continous Billit Mill	3 .	Cratering hits	(P) Roof Rep		
7	Wire rod mill	2	Oldfeer Trie ren	60%		
0	Open hearth furnace	4	D.H. (S)	2500		
7	Aport Lacona dua		2 waste-heat boiler	2100		
			bldgs.	900		
12	Brick Storage	2	1 N.M. (S)	3464		
	Machine Shop	1	D.H. (P)	11000		
27	Forge shop	1	D.H. (S)	3800		
22	Plate shop	1	cratering hit (P)	Roof repaired		
22			Been repaired (S)	1000'		
30	Garage Open hearth office blduing	?	Site cleared (S)	2000' Concerr		
45	Driek storage #2	1	D.H. (S)	2500		
21 22 33 35 44 77 78	DITCH SOCIASE	2	Cratering hit	Repaired		
04	Saw Mill Carpenter Shop	2	2 N.M.			
76	Dock Crane Naka Section Sentering Plant	1	(S)			
77	Naka Section Ore & Limestone Stor	.2	No damage			
	Naka Section Blast Furnaces 1,2,3	14	(S) Furnace out - W	ater supply		
79	Naka Section Brase refraces -1-12		Ć.	ut off.		
00	Naka Section Power Plant	3	(S)			
80 81 82	Maka bection Purpoducts plant	3	Onen storage area			
81	Naka Section By-products plant	8	(S) Gas lines, conv	reyers, none		
82	Naka Section Coke oven battery		to ovens.			
0-	Cool maching mint	2	(S) 1 D.H. Conveyer	· lines		
83	Naka Section Coal washing plant	2	Tracks, wooden buil	Ldings		
84	Naka Section Coal Storage	7	2 D.H.			
85	Wanishi Section Ore Roasting Pl.	14	No major structural	L Damage		
83 84 85 87 88	Wanishi Section Storage, Offices	2	1 D.H.			
87	Wanishi Section Power House	-				
88	Wanishi Section Blast Furasces	4	2 D.H.			
	1, 2., 3, 4					
89	Wanishi Section Sentering Plant	3	2 D.H.	2700		
	Conveyor farm YARD	3	Tracks			
90	Wanishi Section Ore Storage	2				
90	Wanishi Section Office, Workman	10	1 office bldg., ga	rage building		
	building Area.	2	Frag. damage	A		
92 93 94	Wanishi Section By-products pl.		D.H.			
93	Wanishi Section Coke Ovens 1,2,3,	43	Tracks	59		
94	Wanishi Section RR Storage Yard	, ,	1 D.H. (S)	H.		
	Wanishi Section Car Treating Did	5.0	2 buildings destro	ved		
96A	Wanishi Workers housing area	2	100% 50% Under	50%		
	Others		100% 50% Under 184 187 284	Workers House		
	Nakajima	47		Workers House		
	Wanishi	9	15 47 38	Apt. House		
	Nakajima		3 0	Apt. House		
			1 ()	HUU LIU WOO		

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RETUDADAST		THE STEGITT	TDAST	THO DATE
MURORAN	-	WANISHI	IRON	WURKS

	MOITOITAN - WANT	DIL I	NON WORKS	(SQ. FT.)
Bldg.		No.		Roof area
No.	Name	Hits	Damage	Damage
2	Handling and Storage	1	Cratering Hit	(P) 1000'
3	Light & Midium Rolling Mill	1	N.M.	(P) 180'
5	Continous Billit Mill	3	3 cratering hits	(S)
7	Wire rod mill	3	Cratering hits	(P) Roof Rep.
9	Open hearth furnace	4	D.H. (S)	2500'
			2 waste-heat boiler	
12	Brick Storage	2	bldgs.	900'
	THE STATE OF THE S	7	1 N.M. (S)	3464
21	Machine Shop	1	D.H. (P)	11000'
22	Forge shop	1	D.H. (S)	3800
33	Plate shop	1		Roof repaired
30	Garage		Been repaired (S)	1000'
45	Open hearth office blduing	?		2000' Concern
33 36 45 54 64	Brick storage #2	1	D.H. (S)	2500
64	Saw Mill Carpenter Shop	2		Repaired
76 77 78	Dock Crane	2	2 N.M.	
77	Naka Section Sentering Plant	1	(S)	
78	Naka Section Ore & Limestone Stor		No damage	
79	Naka Section Blast Furnaces 1,2,3	14	(S) Furnace out - Wa	ter supply
			cu	t off.
80	Naka Section Power Plant	3	(S)	
81 82	Naka Section By-products plant	3	Open storage area	
82	Naka Section Coke oven battery	8	(S) Gas lines, conve	yers, none
			to ovens.	
83	Naka Section Coal washing plant	2	(S) 1 D.H. Conveyer	lines
84	Naka Section Coal Storage	2	Tmacks, wooden build	
85	Wanishi Section Ore Roasting Pl.	7	2 D.H.	
86	Wanishi Section Storage, Offices	14	No major structural	Damage
87	Wanishi Section Power House		1 D.H.	242.460
83 84 85 86 88 88 88	Wanishi Section Blast Furnaces			
12120	1. 2. 3. 4	4	2 D.H.	
89	Wanishi Section Sentering Plant &			
and the same of th	Conveyor Renth , YARD	2	2 D.H.	2700
The state of the s	Wanishi Section Ore Storage		Tracks	2700
	Wanishi Section Office, Workman	2	IIachs	
	building Area.	10	I office bldg gone	an huillding
			l office bldg., gara	ge purraring
92	Wanishi Section By-products pl.		Frag. damage	
	Wanishi Section Coke Ovens 1,2,3,4		D.H.	
	Wanishi Section RR Storage Yard		Tracks	
	Wanishi Section Car Treating Bldg.	-	1 D.H. (S)	
	Wanishi Workers housing area	2	2 buildings destroye	a V
	Others		100% 50% Under 50% 184 W	0%
	Nakajima	47	184 187 284 W	
	Wanishi	9		orkers Houses
	Nakajima		3 0 3 A	pt. House
	Wanishi		1 0 0 A	pt. House
-				

WANISHI IRON WORKS

- 1. dinished storage
- <. Finished storage
- 3. Light and medium bar mill
- 4. Storage
- 5. Billet mill
- 6. Storage
- 7. Wire rod mill
- 8. Blooming mill
- 9. Open hearth furnaces and soaking pits (a) & (b): Waste heat boiler houses
- 10 19. Store-houses, offices, and recerational buildings
- 20. Repair shop
- 21. Roll-cutting shop
- 22. For ing shop
- 23-29 Offices and stores
- 30. Storage
- 31. Mold shop
- 32. Casting
- 33. Plate works
- 34. Electric furnace
- 35. Auto repair
- 36. Garage
- 37. Rest room
- 38. Stores
- 39. Locamotive storage
- 40-44. Storage

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	MURORAN - WANI	SHI I	RON WORKS	SQ.FT.
DIAm		No.		Roof area
Bldg.	Name	Hits	Damage	Damage:
No.	Handling and Storage	1	Cratering Hit	(P) 1000°
3	Light & Midium Rolling Mill	1	N.M.	(P) 180°
5	Continous Billit Mill	3	3 cratering hits	(S)
7	Wire rod mill	ž	Cratering hits	(P) Roof Rep.
				60%
9	Open hearth furnace	4	D.H. (S)	2500
			2 waste-heat boile	r 2100°
			bldgs.	900 8
12	Brick Storage	2	1 N.M. (S)	3464
21	Machine Shop	1	D.H. (P)	-11000
2 1 2 2	Forge shop	1	D.H. (S)	3800
33	Plate shop	1	cratering hit (P)	Roof repaired
36	Garage		Been repaired (8)	1000
33 36 45 54	Open hearth office blduing	?	Site cleared (S)	2000' Concerr
54	Brick storage #V	1	D.H. (S)	2500
64	Saw Mill Carpenter Shop	2	Cratering hit	Repaired
76 77	Dock Crane	2	2 N.M.	
man (m)	Naka Section Sentering Plant	1	(S)	
78 79	Naka Section Ore & Limestone Stor		No damage	
79	Naka Section Blast Furnaces 1,2,3	14	(S) Furnace out -	
90	37-3 C D D2	•		cut off.
80 81 82	Naka Section Power Plant	3	(8)	
OT OT	Naka Section By-products plant	8	Open storage area	
Oct	Naka Section Coke oven battery	0	(S) Gas lines, con	veyers, none
22	Mates Contiden Cont works and make	0	to ovens.	
QA A	Naka Section Coal washing plant Naka Section Coal Storage	2	Tracks, wooden bui	
RE	Wanishi Section Ore Roasting Pl.	7	2 D.H.	Terrare
86	Wanishi Section Storage, Offices	14	No major structura	Tomada
83 84 85 86 87	Wanishi Section Power House	2	1 D.H.	an and and and and
88	Wanishi Section Blast Furnaces	fire .	T. T. OTT O	
	1, 2, 3, 4	4	2 D.H.	
89	Wanishi Section Sentering Plant &			
W 50	Conveyor farm YARD	3	2 D.H.	2700
	Wanishi Section Ore Storage	3	Tracks	
	Wanishi Section Office, Workman			
	building Area.	10	1 office bldg., ga:	rage building
	Wanishi Section By-products pl.	2	Frag. damage	14
33	Wanishi Section Coke Ovens 1,2,3,4	2	D.H.	
)3)4	Wanishi Section RR Storage Yard	5	Tracks	.]] \
	Wanishi Section Car Treating Bldg.		1 D.H. (S)	
	Wanishi Workers housing area	2	2 buildings destro	yed
	Others		100% 50% Under	
	Naka jima	47	184 187 284	Workers Houses
	Wanishi	9	15 47 38	Workers Houses
	Nakajima		3 0 3	Apt. House
	Wanishi		1 0 0	Apt. House



WANISHI IRON WORKS - 90.3-379 MURORAN, HOKKAIDO. Coke, Iron and Steel Manufacture. Subjects Investigated. Functional Analysis. a. suitable for checking. Complete F/A obtained.

- Published material on older portion of plant, but
- Published data based on older plans and substantially correct.
- Structural Analysis. b.
 - As above.
 - Structural data obtained only on damaged buildings.
 - No conclusions at this time.
- Damage Assessment.
 - Surface bombardment HE
 - Bulk of data with Capt. CHAPIN'S Physical Damage party. Can be obtained at a later date. Data is very complete, considered suitable for checking.
 - 3. None at this time.

WANISHI IRON WORKS - 90.3-379 MURORAN, HOKKAIDO. Coke, Iron and Steel Manufacture.

Subjects Investigated.

- a. Functional Analysis.
 - 1. Published material on older portion of plant, but suitable for checking.
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- b. Structural Analysis.
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 - 3. No conclusions at this time.
- c. Damage Assessment.
 - 1. Surface bombardment HE
 - 2. Bulk of data with Capt. CHAPIN'S Physical Damage party. Can be obtained at a later date. Data is very complete, considered suitable for checking.
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WANISHI IRON WORKS - 90.3-379 MURORAN, HOKKAIDO. Coke, Iron and Steel Manufacture.

Subjects Investigated.

- a. Functional Analysis.
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- c. Damage Assessment.
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 - 2. Bulk of data with Capt. CHAPIN'S Physical Damage party. Can be obtained at a later date. Data is very complete, considered suitable for checking.
 - 3. None at this time.