NORKS TRON WANISHI F/A . 267 (6)

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FUNCTIONAL ANALYSIS REPORT NO. F/A - 267 Date 14 August 1945

TARGET NO:

90:3-379

NAME OF TARGET:

WAMISHI IRON WORKS

LOCATION:

WANISHI, HOKKAIDO, JAPAN COORDINATES: 42°20'N 141°01'E

PHOTOGRAPHY:

Date

Mission

Print Nos 5R:283-287

29 June 1945

5M306 21BC/3PR

5L:283-287

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

This plant produces pig iron and steel and does some steel rolling and probably casting. There are three separate coke oven and by-product plants.

3. LOCATION:

On the E shore of MURORAN Harbor, NIT of and adjoining the town of WANISHI.

4. SERVICES:

The site is served by the MURORAN Main Line RR and has approximately 5,000 ft of docking facilities for shipping and for the receiving of raw materials.

IDENTIFICATION OF FACILITIES:

SECTION A	BLAST FURNACE GROUP
1-3	Travelling loaders .
4,5	Ore bridges (Transporter cranes, working area 160' x 700')
4,5	Ore storage yard - 160' x 700'
7	Contractors shed
8	Unidentified small building
9	Conveyor building
10 .	Ore preparation building
11	Ore preparation, probably sintering. Sintered ore is moved by conveyor to the three(3) blast furnaces in this section and brail to the four (4) blast furnaces in Section G.
12	Boiler house
13	Probable office and laboratory
14	Probable truck maintenance garage
15,16	Storage and plant maintenance shops
17	Office
18	Probable maintenance shops
19	Power house
20	Probable sub-station and transformers for ore bridge (#4,5) operation
21	Probable sub-station and transformers for travelling loader (#1-3) operation
22,23	Unidentified
24-27	Travelling loaders
28	Conveyor system from loaders to ore yard (#32)
29-31	Ore bridges (Transporter cranes, working area 330' x 1,250')
32	Ore storage yard, 330' x 1,250'

5.		TION OF FACILITIES (Continued)
	SECTION A	BLAST FURNACE GROUP (Cont'd)
	33	Charging bins
	34-36a	Blast furnace
	b	Vertical skip hoist
	c	Dust catchers (2)
	d	Hot stoves (3)
	37,38	Casting sheds
	39-41	Unidentified
	42	Office building
	43a	Dust separation building
	b,c	Dorr thickeners
	d	Five (5) dust catchers Dust is probably collected from the
		blast furnace gas for removal of iron ore to be re-sintered
		for use in the furnace
	44	Electric sub-station
	45	Unidentified
	46	Probable transformer sub-station
	47	Office building
	48a	Dust separation building
	b	Dorr thickener
	c	Two (2) dust catchers
	49,50	Unidentified
	51	Probable pig boat and ladle cleaning and maintenance
	52	Unidentified
	53	Storage type building
	54-56	Probable maintenance buildings
	57	Water treatment
	58	Shop type building, reveted, use undetermined
	59	Settling tanks, probably for coal washer in conveyor system
		to power house (bldg #61)
	60	Probable office building
	6la	Boiler house, probably has five (5) boilers
	b	Generator hall
	c	Transformers
	d	Blasting engines
	62,63	Ladle maintenance buildings
	64,65	Probable maintenance shops and office
	66	Unidentified
	67	Gasometer, wet type, 165' diameter, height approximately 175'
	68	Garage, vehicle maintenance
	69	Unidentified
	70	Storage type building
	71	Unidentified
	72	Pig casting house
	73,74	Unidentified small buildings
	75	Conveyor from coke ovens in Section B to blast furnaces #34-36
	76	Conveyor, probably for limestone to charging bins
	77-81	Small shops and offices
	SECTION B	COKE OVENS
	82	Coke conveyor from stock pile into main conveyor system between
		coke ovens and charging bins
	83	Transformer building
	84,85	Unidentified small buildings
	86	Shop type building
	87,88	Unidentified small buildings
	89-91	Storage buildings
	92	Condensers and water tanks
	93	Gasometer, wet type, 90' diameter
	94	Probable offices
	95	Small shop
	96-98	Unidentified small buildings
	99	Small building with blast walls

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SECTION B	COKE OVENS (Cont'd)
100	Probable shop building
101	Office
102	Small transformer station
103	Small office
104,105	Shops, probably for trucks
106	Unidentified
107	Storage
108	Unidentified
109	Storage
110	Offices
111	
	Coal loading building
112	Transformer station
113	Storage, three units, one is roofed, two have wall frame only
114	Conveyor from coke wharf
115	Quenching tower
116	Coke oven, approximately 80 ovens. Cokewharf is enclosed
117	Coaling tower
118	New coke oven under construction, some excavation, small con-
	tractors sheds and chimney footing on the site
119	Quenching tower
120	
	Coke oven, approximately 80 ovens
121	Coaling tower
122	Coke oven, approximately 80 ovens
123	Quenching tower
124	Coke conveyor
125	Storage type building
126	Coal conveyor
127,128	Coal preparation and treatment buildings
129,130	Coal conveyors
131	Small shed
132	Probable garage
133	Unidentified
134	Office building
135	Transformer station
136-147	Storage buildings
148	Building material plant, probably concrete
149-154	Storage type buildings
155	Unidentified
1),	Unitachten
CECUTON C	DV DDODUGE DI AND
AND REAL PROPERTY AND PERSONS ASSESSED.	BY-PRODUCTS PLANT
156	Primary coolers
157	Ammonia liquor cooling coils
158	Decenting tanks
159	Exhauster house and by-products building
160-162	Final coolers and benzol scrubbers
163	Benzol building
	Storage tanks for building #163
164	Storage tanks for building #163
164	Transformer station
164 165 166	Transformer station Storage type building
164 165 166 167–169	Transformer station Storage type building By-products processing buildings
164 165 166	Transformer station Storage type building By-products processing buildings Three vertical tanks probably processing
164 165 166 167–169	Transformer station Storage type building By-products processing buildings Three vertical tanks probably processing Horizontal tanks
164 165 166 167–169 170a	Transformer station Storage type building By-products processing buildings Three vertical tanks probably processing
164 165 166 167-169 170a b	Transformer station Storage type building By-products processing buildings Three vertical tanks probably processing Horizontal tanks Processing building, product undetermined
164 165 166 167-169 170a b c	Transformer station Storage type building By-products processing buildings Three vertical tanks probably processing Horizontal tanks Processing building, product undetermined Two (2) storage tanks - 25' diameter
164 165 166 167-169 170a b c 171 172	Transformer station Storage type building By-products processing buildings Three vertical tanks probably processing Horizontal tanks Processing building, product undetermined Two (2) storage tanks - 25' diameter Storage tank, 26' diameter, reveted
164 165 166 167-169 170a b c 171 172 173	Transformer station Storage type building By-products processing buildings Three vertical tanks probably processing Horizontal tanks Processing building, product undetermined Two (2) storage tanks - 25' diameter Storage tank, 26' diameter, reveted Probable pump house
164 165 166 167-169 170a b c 171 172 173	Transformer station Storage type building By-products processing buildings Three vertical tanks probably processing Horizontal tanks Processing building, product undetermined Two (2) storage tanks - 25' diameter Storage tank, 26' diameter, reveted Probable pump house Two storage tanks, 25' diameter, reveted
164 165 166 167-169 170a b c 171 172 173 174 175	Transformer station Storage type building By-products processing buildings Three vertical tanks probably processing Horizontal tanks Processing building, product undetermined Two (2) storage tanks - 25' diameter Storage tank, 26' diameter, reveted Probable pump house Two storage tanks, 25' diameter, reveted Storage tank, 60' diameter, reveted
164 165 166 167-169 170a b c 171 172 173 174 175 176-178	Transformer station Storage type building By-products processing buildings Three vertical tanks probably processing Horizontal tanks Processing building, product undetermined Two (2) storage tanks - 25' diameter Storage tank, 26' diameter, reveted Probable pump house Two storage tanks, 25' diameter, reveted Storage tank, 60' diameter, reveted Possible contact sulphuric acid plant
164 165 166 167-169 170a b c 171 172 173 174 175	Transformer station Storage type building By-products processing buildings Three vertical tanks probably processing Horizontal tanks Processing building, product undetermined Two (2) storage tanks - 25' diameter Storage tank, 26' diameter, reveted Probable pump house Two storage tanks, 25' diameter, reveted Storage tank, 60' diameter, reveted

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SECTION C	
181	Transformer station
182	Probable distillation or roaster unit
183	Processing building, hopper or tank at one end
184	Processing building, product undetermined
185	Eleven (11) horizontal storage tanks, approximately 8' diameter
	22' long
186	
	Settling tanks, probably tar residue
187,188	Processing buildings
189a	Settling tanks
b	Processing building
190	Transformer building
191	Probable pump building
192-194	Processing buildings
195,196	Garages
197	Storage building
198	Probable pump house
199,200	Processing buildings
201	Processing building, and running tanks
202	Six (6) storage tanks
203	Probable pump building
204	Processing building
205	Transformer station
206	Storage tanks, five (5), 30' diameter
207-209	Offices
210	Unidentified
211	Storage
212	
	Unidentified
213-215	Storage
SECTION D	STORAGE YARD
216	Car loading building
217	Small office
SECTION E	COKE OVEN AND UNITHERETED TVDE OF DV DECIMAR DE AND
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218-220	Storage type buildings
221	Administration buildings
222	Office
223,224	Unidentified small buildings
225	Storage
226	
	Elevator building, car loading from boat
227	Loading building
228	Unidentified small building
229	Coke storage and car loading building
230a	Coke oven, approximately 40 ovens
b	Coaling tower
•	Ram
227 222	
231-233	Coal preparation buildings
234	Probable producer gas building
235	Boiler house
236	Quenching tower
237	
238	Processing equipment, robably decanting tanks and coolers
	Processing equipment, use undetermined
239	Probable exhauster house
240	Processing equipment, use undetermined
241	Unidentified small building
242	Unidentified probably reinforced concrète
	building flat roofed, approximately 110' x 85'
243	Gasometer approximately Liu diameter 25.
	Gasometer, approximately 45' diameter, 35' high
244	Probable tank car loading building - pumps etc.
245,246	Unidentified small buildings
247	Cooling ponds, overhead pipeline from building #240 drains into
	these ponds.
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IDENTIFICAT	TION OF FACILITIES (Continued)
SECTION F	STORAGE YARD, COAL AND ORE
248	Car loading building, probably lime stone
249	Office
250	Unidentified small building under construction
251	Transporter crane, working area 410' x 750'
252	Unidentified building
	Ore and limestone receiving building
253	Conveyor from #253 to processing building #255
254	Processing building probably contains rotary kilns for ore
255	treatment
	Conveyor and collecting hopper from building #255
256	
257	Transformer building
258	Unidentified building
259	Probable office
260-262	Unidentified small buildings
263-264	Small storage type buildings under construction
265	Shop type building, use undetermined
266,267	Unidentified small buildings
SECTION G	BLAST FURNACE AREA
268	Gasometer, wet type, approximately 80' diameter, 65' high
269	Pump house for #270
270	Cooling pond
271	Storage type building
272-287	Small shops and storage
288	Ore unloading building
289	Ore conveyor system
290,291	Mobile ore conveyors
292	Ore bridge, ore yard 135' x 800'
293	Ore preparation building, sintering etc .
294	Probable coke preparation
295	Charging shed .
296-299a	Blast furnaces
b	Skip hoist
c	Hot stoves
d	Casting house
300	Power house, probably uses gas boilers. There is no other
,00	visible fuel supply.
301	Dust collectors and gas cleaning building
302	Probable blasting engine house
	Unidentified
303,304	Dust collectors and gas cleaning building
305	
306	Probable producer gas plant
307	Probable blasting engine house
308	Unidentified
309	Boiler house
310	Small boiler house
311,312	Ladle cleaning and lining
313	Probable spray pond
314	Stand-pipe
315	Pump house
316	Static water storage tank
317-322	Unidentified small buildings
323,324	Storage type buildings
325,326	Pig casting building
327,328	Small sheds
329	Coal and coke storage
330	Probable maintenance shop
331	Shop, use undetermined
332	Unidentified small buildings
333	Probable garage
334-337	Probable offices
338-340	Offices
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5. IDENTIFICATION OF FACILITIES (Continued) SECTION G BLAST FURNACE AREA (Cont'd) Unidentified

341	Unidentified	
342	Storage type building	
343	Vehicle maintenance	
	TARES AND DIE CONONCIANA DE ARM	
SECTION H	COKE OVENS AND BY-PRODUCTS PLANT	
344	Coal treatment building	
345	Conveyor to coaling towers on coke ovens	
346	Coaling tower	
347	Coke ovens, approximately 75 ovens	
348	Quenching tower	
349,350	Water storage tanks and pump houses for quenching	
351	Coaling tower	
352	Coke ovens, approximately 50 ovens	
353	Primary coolers Decanting tanks	
354	Probable tar storage, six (6) approximately 18' diameter	
355 356,357	Probable ammonia liquor storage tanks	
	Exhauster house	
358a	By-products building	
359 b,c	Benzol scrubbers and final coolers	
360	Processing equipment, two (2) towers	
361	Processing building	
362	Storage tank, 30' diameter	
363	Processing equipment, probably four (4) towers	
364	Storage tanks, one 35' diameter, one 18' diameter	
365	Storage tanks, one 35' diameter, one 18' diameter	
366	Probable gas producer	
367,368	Unidentified small buildings	
369,370	Processing buildings, probably tar	
371	Horizontal tanks	
372	Unidentified	
373	Storage tanks, three (3) 34' diameter in blast walls	
374	Unidentified building	
375	Storage type building	
376	Storage tanks, four (4) 30' diameter, with blast walls	
377	Running tanks	
378	Processing building	
379	Spray pond	
380	Probable pump building	
381	Car loading building	7
382	Storage tanks, 6 total; 5, 35' diameter; 1,12' diameter, 1	column
383	Processing building	
384	Probable residue beds	
385	Office type building	
386-388	Processing buildings	
389	Storage tanks, two (2) 30' diameter with blast walls	
390	Probable sludge or residue beds	
391,392	Probable office and labs	
393,394	Unidentified Gate guard office	
395 396 – 399	Unidentified small buildings	
400	Processing group	
401	Storage tanks	
401	Unidentified	
403	Three pits, 25' diameter with framework above, possibly buil	ding
40)	under construction	
404,405	Unidentified	
406	Transformer sub-station	
407	Processing building	
408	Probably cooling coils	
409,410	Unidentified small buildings	
411,412	Large storage type bldg with RR spurs entering bldg.	7
413-420	Various small shops and storage type buildings	
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5.	IDENTIFICATI	ION OF FACILITIES (Continued)
	SECTION J	ADMINISTRATION AND PROBABLE FOUNDRY GROUP
	421	Office
	422-424	Storage buildings
	425	Probable RR car maintenance shop
	426,427	Vehicle maintenance shops
	428,429	Office buildings
	430-432	Storage buildings
		Probable office
	433	Office buildings
	434-436	Main administration building
	437	Unidentified structure
	438	
	439	Administration building
	440	Probable garage
	441,442	Storage type buildings
	443	Boiler house
	444	Storage type building under construction
	445	Transformer sub-station
	446	Shop building, use undetermined
	447	Probable foundry
	448	Shop building, use undetermined
	449,450	Probable foundry buildings
		Shop, possible machining or casting, cleaning
	451	Storage buildings
	452-455	
	456	Foundry building
	457	Transformer sub-station
	458,459	Probable storage
	460,461	Unidentified
	462	Probable RR car repair shop
	SECTION K	OPEN HEARTH AND ROLLING MILLS
	463-465	Unidentified
	466,467	Office buildings
	468-470	Unidentified
	471a	Open hearth building, five (5) furnace stacks, charging
	b	Furnace area
		casting pit
	17720	Rolling mill group. Probable soaking pits
	472a	Rolling mills
	b-j	Storage yards with overhead travelling cranes
	k,m	Conveyor from #472 to storage yard
	473	Area under construction, various small sheds, probably
	474	
		contractor's
	475	Probable laboratory
	476	Office
	477	Building under construction
	478	Storage type building
	479	Office
	480-484	Storage
	485-487	Office buildings
		Storage buildings
	488,489	Storage yard, finished products
	490	
	491	Crane, loader
	492	Scrap storage yard
	493	Office building
	SECTION L	STORAGE AREA
	494-496	Unidentified
	497-500	Storage buildings
	501	Reveted building, use undetermined
	502-515	Storage buildings
	516	Offices
	517-523	Storage buildings
		Scrap storage yard
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5. IDENTIFICATION OF FACILITIES (Continued)

SECTION L STORAGE AREA (Cont'd) Storage buildings 525-531

Buildings under construction, probably storage 532,533

6. DISCUSSION:

Section H of this plant is reported in Air Objective Folder No.90.3 as the MITSUBISHI COAL LIQUEFACTION PLANT (Target No. 988). Photography indicates this to be coke ovens with a general by-product plant.

7. ACTIVITY:

General truck and rail movement is visible on the photography. All coke oven batteries appear to be in production. No smoke is visible from the stacks of the open hearth or rolling mill buildings. Gasometers are approximately 1/3 filled. No shipping activity is visible.

CFL 750.805 ENCL:

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