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Shanghai, China, September 1, 1939.

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Subject: "PORT HANDLING FACILITIES"

Submitted by: H. B. Howard, Assistant Trade Commissioner.

(Required Report, Reference: Transportation
Division's Request dated May 10, 1939.)

In accordance with your request for a revision of the port handling facilities available in various leading ports in China, there are here presented such data as may be obtained at the present time. We are also forwarding, as an enclosure to this report, a copy of the first edition of "The China Shipping Manual - 1937-1938" as published for private distribution by Jardine, Matheson & Company, Ltd. Although this compilation is already somewhat out of date due to the constant changes now taking place in China, particularly in relation to the port facilities available to foreign shipping, the basic information contained therein, together with the comprehensive maps which give in detail harbor accommodations normally available in 9 of China's leading ports, will undoubtedly be of value to the Bureau's forthcoming study of packing for foreign markets.

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Port Handling Facilities in China - 1939

(To be Used in Conjunction with "The China Shipping Manual")

- Amoy: Lighter service loading into cargo boats. Vessels up to 500 feet. No quays. Private warehouses belonging to coastal steamship companies, capacity unknown at present owing to Japanese occupation. Butterfield & Swire & Co. have their own pontoons.
- Canton: Private wharves belonging to merchants, coastal steamship companies, Nippon Yusen Kaisha, Butterfield & Swire and Jardine Matheson. Other steamers usually discharge into lighters. Whampoa, the usual anchorage for ocean going vessels, is 12 miles from Canton on the Pearl River, and approximately 72 miles from Hong Kong.
Prior to Japanese occupation, there were Government owned munition and explosive warehouses. Details unknown at present. Custom's bonded warehouses are available near wharves.
- Chefoo: Open bay sheltered by Breakwater and Mole. Vessels used to unload at the Mole Wharf -- 600 ft. in length -- cannot be used now owing to Japanese occupation. There are two mooring buoys for ships over 400 ft. in length
Steel warehouses and warehouses at Mole Wharf have storage capacity of 5,600 cu.ft. with light railway service.
- Chinkiang: On the Yangtze River, about 150 miles from Woosung. Vessels discharge into hulks connected with the shore or into cargo boats at midstream. No bunkering facilities.
- Chinwangtao: (Gulf of Petchili) - Vessels discharge cargo at 5 piers direct into railway cars; under normal conditions cargo can ~~then~~ be hauled to any station in North China without further handling.
Warehouse space - Concrete, ~~also~~ sheds and open space for about 14,000 tons of cargo.
- * Foochow: Vessels load and discharge into hulks or lighters at Pagoda Anchorage, 9 miles below the city; no wharves. There are about 20 hulks available. Warehouses of wooden and concrete structures can be found at Foochow - capacity unknown.

Hankow:

On the Yangtze River about 582 miles from Woosung. Vessels load and discharge by lighters and at hulks - situated along Hankow's foreshore -- sloped bunding. There are 20 hulks and a floating dock for small vessels only. Various private hulks and small piers owned by oil companies, also Chinese National Government prior to its removal to Chungking .

Warehouses are situated in the city a short distance away from the hulks. Prior to hostilities they were principally owned by private coastal and river steamship companies and merchants.

Custom's bonded warehouses are available.

* Hong Kong:

The Hongkong & Kowloon Wharf Co.'s wharves can discharge 1,000 tons a day per steamer. Cargoes can also be discharged onto cargo boats. There is a railway siding connecting with the Kowloon-Canton Railway.

The total length of the wharves belonging to this company aggregate about 6,100 feet.

There are reinforced concrete warehouses with a total capacity of approximately 500,000 tons of cargo.

The Hongkong & Kowloon Wharf Company own about 11 tugs and launches; 115 lighters - capacity 10,000 tons.

The entire premises are connected by light railway.

They also possess a large number of locomotive cranes capable of lifting up to 25 tons.

HOLT'S WHARF: There are 3 wharves - 470 ft., 450 ft. and 600 ft. long.

3 Steam cranes to lift 5 tons each.

3 " " " " 2 " "

They have steel and reinforced concrete warehouses with a total capacity of 25,000 tons. A railway siding connects with the Kowloon-Canton Railway.

Tugs and lighters are also available.

There are also the following privately owned wharves at Hong Kong.

Hongkong & Canton & Macao S/N Co.	- 250 ft. in length
O. S. K.	300 " " "
Texaco Co.	300 " " "
Standard Vacuum Oil Co. N.Y.	113 " " "
Yuen On Steamship Co. Ltd.	200 " " "
Li Chi Kok Wharf	200 " " "

HONGKONG & WHAMPOA DOCK CO. LTD.:

Total length 4,032 ft.

One steam sheer capable of lifting 80 tons.

Electric hammer head 100 ton crane with radius of 70 ft.

KOWLOON-CANTON RAILWAY WHARF (GOVERNMENT):

Extreme breadth available - 200 feet.

Douglas Lapraik Co's Wharf: Length 300 ft.
China Merchants S.N. Co's Wharf: Length 295 ft.

Taikoo Dock Company's Wharves:

Total length 3,200 ft. One electric crane, capable of lifting up to 100 tons. Several traveling cranes lifting 10 to 20 tons. One electric traveling Gantry Crane capable of lifting 25 tons at 77 ft. 6 inches radius.

Kiukiang:

On the Yangtze River about 442 miles from Woosung. Steamers discharge into hulks connected to the shore by pontoons; no tide. No buoys, ocean going vessels anchor in mid-stream. Anchors should be sighted frequently.

* Macao:

There are 35 wharves. Vessels load and unload also on cargo boats. Wharves are suitable only for low draft vessels - 7 to 8 ft. in the inner harbor; lighter service for larger vessels.

Nanking & Pukow:

On south bank of Yangtze River, about 195 miles above Woosung. Loading and discharging into pontoons on Pukow side, into hulks on Nanking side. (See China Shipping Manual).

* Ningpo:

Private wharves and lighters; no public docks.

* Shanghai:

About 12 miles above Woosung.

(a) Shanghai & Hongkew Wharf Co. Ltd.

(Jardine, Matheson & Co. Agents)

35 Wharves where loading and discharging facilities are available; besides loading and unloading into cargo boats.

Total length of wharves -- 5,596 ft.

(b) Hunt's Wharf: (owned by the same concern) -- 2,023 ft.

1 Hand crane fixed capable of lifting 20 tons

1 traveling steam crane - lifting 5 tons

2 " " " " 2 "

1 Hand crane lifting 4 tons

2 pontoon type steam cranes with lift of 1 ton each

Total warehouse (corrugated iron with concrete pillars) space including sheds 1,262,414 square feet.

(c) Old Ningpo Wharf: (belonging to same concern) - 792 ft.

Floor space and godown and shed space totalling 281,894 square feet

(d) East Pootung Shanghai Hongkew Wharf: Length 1,310 ft.

1 Fixed hand crane lifting 20 tons

2 Traveling steam cranes lifting 10 and 2 tons respectively

1 Traveling hand crane lifting 4 tons

Shanghai (Cont'd):

(e) West Pootung (Shanghai Hongkew wharf):
Length 1,240 feet
Godown and shed warehouse space 374,851 square feet (Corrugated iron)
1 Traveling steam crane lifting 5 tons
The company plies free ferry services connecting the wharf and the Shanghai Bund side.

Tungkadoo Wharf: Length 1,500 feet
1 Traveling Crane lifting 12 tons
Godown and shed space (Corrugated iron type) 85,00 tons general cargo

Tungkadoo Middle Wharf: Length 900 feet
Open space for coal storage - capacity about 100,000 tons of coal

Mei Tai Shing Tungkadoo Wharf: Length 873 feet
Storage space (open air) 50,000 tons (coal)

Nippon Yusen Kaisha Central Wharf: Length 840 feet
3 pontoons of 300 feet, 240 feet and 120 feet
These wharves are generally used by the company's own steamers

N. Y. K. Wayside Wharf: quayage 900 feet
Very large and modern constructed reinforced warehouses; corrugated iron sheds and open space. Area and capacity unknown at present
1 Traveling steam crane lifting up to 5 tons

N. Y. K. Pootung Wharf: quayage 1,064 feet
1 Steam crane lifting up to 5 tons

Kiangwan Co. Wharf: (Formerly China Alcohol Distillery Co. Chinese semi-Governmental owned company, now in hands of Japanese).
Length of wharf 1,129 feet, also one pontoon of 200 feet
They have 24 tanks for oil storage

China Merchants Steam Navigation Wharfs:

(a) Kin Lee Yuen: (Roosevelt Terminus chartered by Wm. Hunt & Co.)
Length of quayage about 1,749 feet, having 12 pontoons in front. Formerly these pontoons were reserved exclusively for the company's own ships but now may be rented.

(b) China Merchants Lower Wharf: Quayage 835 feet
2 steam cranes capable of lifting 18 and $3\frac{1}{2}$ tons each

(c) China Merchants Central Wharf: Length 510 feet

(d) China Merchants Eastern Wharf: Pontoons & bridges 2,200 feet

(e) China Merchants Yankadoo Wharf: Quayage 1,010 ft.

Shanghai (Cont'd):

ALL CHINA MERCHANTS WHARVES have warehousing facilities, although at the present time they are apt to be in a delapidated condition as a result of the Sino-Japanese hostilities. With the exception of Kinleeyuen, all facilities of the company are under Japanese control.

- Nisshin Kisen Kaisha Wharf: 1,214 feet
(a) Pile wharf 715 feet
(b) Pontoon 200 feet
- Chinese Eastern Railway Wharf: 300 feet
- Yangtze Wharf & Godown Co. Wharf: (Pootung)
570 feet with 2 pontoons of 250 ft. each
- Kailan Mining Administration's Wharf: 700 feet with 3 pontoons of 200 ft. each.
Open space for coal storage and handling.
- Asiatic Petroleum Co's Wharf: 1,473 feet,
(Private storage tanks)
- China Navigation Co's Wharf: 1,070 feet.
3 berths and 2 pontoons
- Wating Wharf: 1,398 feet with 5 berths and 5 pontoons
Warehouse and shed space capacity of about 27,700 tons of general cargo
- French Concession Wharves: Quayage 1,220 feet
5 berths, with 5 pontoons
Warehouse and storage space capacity about 44,500 tons. Reinforced concrete buildings reserved for Butterfield & Swire & Co. Wharves are also reserved for the China Navigation Co's own fleet (Butterfield & Swire - Agents)
- Holt's Wharf - Pootung: (Butterfield & Swire, Agents) Quayage - 2,423 feet
1 Steam Crane lifting up to 5 tons; also
1 steam crane lifting up to 2 tons.
There are transit sheds alongside wharf - capacity 26,500 tons.
Reinforced concrete warehouses capacity - 33,940 tons.
There are tug and lighter services also
- Mitsui Bussan Kaisha Wharf: (Pootung Lower Quayage - 760 feet)
- Mitsui Bussan Kaisha Wharf: (Pootung Upper Quayage - 1,532 feet)
- (a) Robert Dollar Company's Wharf: (Pootung)
Quayage - 1,300 feet
1 steam travelling crane lifting 7 tons
1 Auto crane 3 tons
- (b) Dollar Wharf & Godown Co., Fed. Inc. U.S.A.:
(1) Total warehouse space approximately 157,600 sq. ft. or can accommodate up to 60,000 tons of general cargo. (17 warehouses, all of which are re-inforced concrete).

Tientsin - Tongku: 4.6 nautical miles off mouth of Hai Ho River at Taku. Private wharves and Chinese Government Railway wharf. Quayage at upper wharf - 1,000 feet with equipment for 30 ton crane. Chinese Government Railway Wharf - lower wharf - 200 ft. with 3 double jetty type wharves for 3 ships.

Kailan Mining Administration Co's Wharf: - 1,00 feet
China Merchant's Wharf: - 950 feet and 1,000 ft. pontoon
Japanese Wharf: - 800 feet
Ex-German Wharf: - 1,000 feet

(1) French Government Wharf, (2) Salt Gabelle Wharf (formerly Governmental) (3) A. P. C. Wharf, (4) Jardine Matheson Wharf and (5) North China Steamship Co. Wharf and various other similar small wharves for launches etc.

Wharf belonging to the Societe Francaise de Navigation de Tongku - has dock and workshop.

Dangerous Goods Warehouses: There are several warehouses available for the storage of explosive magazines and munitions of war. These are situated 5 miles from mouth of river opposite the Custom's Station.

Tsingtao (Inner Harbor):

Quayage about 14,300 feet alongside wharves of which there are 5.

Floating steam derrick lifting 35 tons and 1 stationary crane lifting 150 tons.

Only limited warehousing facilities are afforded foreign shipping concerns by the Japanese authorities, thus forcing appreciable amounts of cargo to be unloaded onto open wharves. Entry to inner harbor wharves subject to Japanese approval. All wharves and warehouses are under the control of the Municipal Government.

Wuhu:

On the Yangtze River about 246 miles above Woosung. Vessels load and unload at hulks. No buoys, vessels anchor in midstream.

* Not under Japanese occupation.

H. B. Howard

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