

PORT SECURITY

Port security will follow the general outline as given for plants, posts, camps or installations in so far as applicable. There are a few definitions which must be known, namely:

Harbor: A sheltered body of water of sufficient depth to enable a ship to find shelter in it from storms of the high seas.

Ports: A harbor to which terminal facilities have been added.

Wharf: General term for landing place for vessels and cargoes.

Piers: A wharf structure that projects into a stream, ocean, etc.

Slips: Open water spaces between adjacent piers.

Quays: Wharves parallel to or lying along the shore.

Docks: Type of terminal in which the slips or basins adjacent to wharves are provided with gates.

Transit shed: A warehouse on a wharf for temporary storage of goods.

PORT

I. General

A. Name of port.

B. Location.

1. Prevailing winds - storms, etc. of an unusual nature.

2. Maps showing soundings of the total port and contours of the area.

C. Type of Port.

1. Artificial, natural.

a. Type of bottom - clay, silt, ledge, etc.

(1) Prone to rapid changes due to shifting of bottom material.

(2) Dredging facilities available.

b. River net work served.

2. Approach.

a. From sea river, etc.

b. Distance from sea.

3. Average rise and fall of tide - How many tides per 24 hours

- D. Channels.
 - 1. Location, marking of, depth of, etc.
- E. Breakwaters, dikes, seawalls, etc.
 - 1. Location, material constructed of, purpose, efficiency, etc.
- F. Berthing space, anchorage space available, wharfage space.
- G. Type, number, size, location, and channel depth of slips, quays, piers, wharves, docks, etc.
 - 1. Constructed of what material: wood or concrete piling, solid concrete, rock crib, etc.
 - 2. Age.
 - 3. Condition
 - 4. What is a safe estimated load per square foot.
- H. Transit sheds, warehouses, beach stacking spaces, etc.
 - 1. Location.
 - 2. Complete physical description.
 - 3. Complete list of facilities, including length and width of piers, storage space, stacking space, etc.
 - 4. Railroad facilities.
 - 5. Accessibility.
 - a. Has it an inner railway belt. An inner railway belt connects with all piers and wharves and connects with outer belt.
 - b. Has it an outer railway belt. An outer railway belt encircles the port connecting with all freight line tracks and connecting with various parts of the inner railway belt.
 - c. Location, type (draw, etc.), material, clearance above the track, clearance above water or ground, safe loads, switches, controls, etc.
 - d. Type, age, and condition of equipment.
 - e. Railroad repair facilities available. Describe in detail.
- I. Ship repair facilities. Describe in detail.
- J. Road and bridge net of the port. Width, length, location, area serving, type of construction, overhead clearance, clearance over water, ground, etc., safe load factor. Type of traffic. Is there physical connection between every pier, etc., road railway and warehouse.

K. Freight movement.

1. River, stream, canal.

a. Width, depth, direction, facilities served, control points, etc. of river, stream, canal.

2. Passengers - Civilian and Military.

a. Who exercises control? How? Explain in detail.

3. General Cargo.

a. Bags, crates, etc.

4. Bulk Cargo

a. Grain, ore, coal, petroleum

5. Military equipment and supplies.

6. How is freight handled?

a. Railroad cars.

(1) To warehouse, industrial plants, etc.

b. Trucks

(1) To warehouse, industrial plants, etc.

c. Lighters

(1) To warehouse, industrial plants, etc.

d. Directly overside to pier shed, warehouse, elevator, coal pockets, etc. or directly overside to harbor lighters, river lighters, canal barges, etc.

e. Is freight handled efficiently?

f. Number of lighters, draft, are they public, private, chartered? Are they open deck, covered deck, open hatch, etc.? Give sized, loading capacity? Are they self-powered? What type of fuel and engine? Is it a standard engine? Are there specific port rules for lighter anchorage, etc.? Is a wharfage fee charged? By whom?

g. Are the physical characteristics of the port such that material may be dropped overboard and floated to shore?

(1) May trucks, banks, teams, carts, etc. drive along shore and pick up material?

(2) Has the port a shallow beach so that trucks, tanks, etc. can be disembarked from barges, etc.? Give depth-indicate areas on maps.

- (3) Can materials be stacked on beach? Indicate position on map. Are the beach and materials accessible for transportation by truck, rail, barge, etc.

L. Equipment.

1. Cranes, cargomasts, conveyors or other means of transferring cargo.
 - a. List number, size, type, standardization, etc.
2. How is freight moved along pier or wharf?
 - a. Trucks, railroad, tanks, etc.
3. Transit shed give protection from weather and stealing, chance to sort and stack cargo - have facilities to load and unload - explain in detail. What is relationship of cranes, teamways, railways, railroad tracks to the transit shed.
4. Does transit shed have side port discharge or water level discharge, portable conveyors, hatch transfer (ships tackle and wharf winch) crane, overhead gantry crane, skids, monorail trolleys, etc.? How much area within the shed and along the piers do these cranes cover? What is their safe load, condition, etc. and repair facilities for them?
5. Are there hand trucks, motors, electric trucks, donkeys, trailers, etc. available? How many of each, what type, condition, etc.?

M. Load factor.

1. What material is available with which to load a ship which has just discharged its cargo, etc.?

N. Comparative efficiency of port.

- O. Defensive fortifications - What defensive fortifications are present - Describe in detail channel markers, buoys, guiding lights, terrain features.

P. What preventative measures have been taken to keep enemy ships from the harbor?

1. Mines, nets, boat patrols, air patrols, etc. Describe in detail insofar as practicable.

Q. Comparative port layout.

- R. Character of industries served by the port. Name, location, type, capacity, imports, exports, relative importance to war effort, etc. Describe in detail.

S. Describe each ship, harbor craft, etc. available.

T. List supplies of raw materials available in the area such as coal, fuel oil, gasoline, etc.- Give location.

U. List all repair facilities available in area.

II. Plant, Post, Camp or Installation - History, etc.

III. Officials, etc.

IV. Layout, etc.

Continue as in any other installation survey.