

RESTRICTED

GENERAL INFORMATION

INCLUDING DESCRIPTIONS AND
TESTS OF ELECTRIC AUXILIARIES

U. S. S. WICKES, TORPEDO BOAT
DESTROYER No. 75

INFORMATION RELATIVE TO ITEMS UNDER COGNIZANCE
OF THE BUREAU OF CONSTRUCTION AND REPAIR
NAVY DEPARTMENT

RESTRICTED

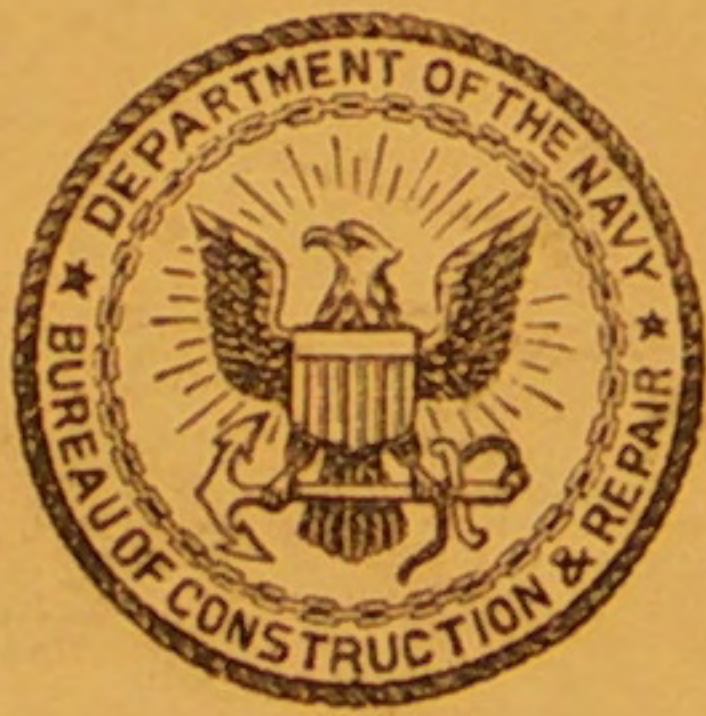
Serial No. 42

GENERAL INFORMATION
INCLUDING
DESCRIPTION AND TESTS OF ELECTRIC AUXILIARIES
TORPEDO BOAT DESTROYER No. 75

U. S. S. WICKES

Information relative to items
under cognizance of
BUREAU OF CONSTRUCTION AND REPAIR
NAVY DEPARTMENT
Washington, D. C.

1918
Finished Plan No. 41



WASHINGTON
GOVERNMENT PRINTING OFFICE
1919

BUREAU OF SHIPS
NATIONAL ARCHIVES FILES

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INTRODUCTION.

HISTORICAL DATA.

Authorized by act of Congress, August 29, 1916.
Vessel built by Bath Iron Works.
Contract signed, November 30, 1916.
Contract date of completion, September 30, 1918.
Keel laid, June 26, 1917.
Vessel launched, June 25, 1918.
Christened by Miss Ann Elizabeth Wickes, Brooklandville, Baltimore County, Md.
Date of delivery to Government, July 31, 1918.
Date of official preliminary trial, July 20, 1918.
Vessel commissioned,

DIMENSIONS AND DISTANCES.

Length over all, 314 feet 4½ inches.
Length between perpendiculars, 310 feet.
Breadth, molded, 30 feet 11½ inches.
Breadth, over guards, 31 feet 7¾ inches.
Depth, molded at side (Frame No. 89), 20 feet 7¾ inches.
Depth, molded at center (Frame No. 89), 21 feet 9½ inches.
Tons per inch (9 feet W. L.), 15.40.
Mean trial displacement, 1,140 (1,154, designed).
Wetted surface (9 feet W. L.), 9,940.
Coefficient block (designed 9 feet W. L.), 0.47.
Coefficient prismatic (designed 9 feet W. L.), 0.63.
Coefficient midship (designed 9 feet W. L.), 0.75.
Coefficient water line (designed 9 feet W. L.), 0.68.
Area of rudder, 66.5 square feet.
Center of buoyancy (9 feet W. L.) above bottom of keel, 5.50 feet.
Center of buoyancy (9 feet W. L.) forward of middle perpendicular, 1.10 feet.
Transverse metacenter above C. B. (9 feet W. L.), 8.93 feet.
Longitudinal metacenter above C. B. (9 feet W. L.), 764 feet.
Center of gravity of water line abaft middle perpendicular, 4.72 feet.
Center of gravity of full load water line abaft middle perpendicular, 5.10 feet.
Frame spacing, 21 inches.

LONGITUDINAL DISTANCES.

Projection of stern at main deck, abaft A. P., 1 foot 4½ inches.
Axis of rudder, forward of A. P., 6 feet 4½ inches.
Forward end of straight keel, from F. P., 11 feet ½ inch.
After end of straight keel, from A. P., 30 feet.
Length of straight keel, 268 feet 11½ inches.
Forward end of bilge keel, from F. P., 92 feet 6 inches.

GENERAL INFORMATION.

After end of bilge keel, from A. P., 78 feet 9 inches.
 F. P. to center of foremast, at main deck, 90 feet.
 F. P. to center of stack No. 1, at main deck, 107 feet 5 inches.
 F. P. to center of stack No. 2, at main deck, 123 feet 4 inches.
 F. P. to center of stack No. 3, at main deck, 145 feet 11 inches.
 F. P. to center of stack No. 4, at main deck, 161 feet 11 inches.
 Center of mainmast, at main deck, to A. P., 51 feet 3 inches.
 Center of shaft struts, forward of A. P., 21 feet 3 inches.
 Propellers, forward of A. P., 16 feet 10 $\frac{5}{8}$ inches.

HEIGHTS ABOVE DESIGNER'S WATER LINE.

Bridge at center (Frame No. 40), 22 feet 9 $\frac{1}{4}$ inches.
 Bridge at outboard ends (Frame No. 47), 21 feet 7 inches.
 Forward smokestack on C. L., 39 feet 3 inches.
 Lookout platform, 29 feet 6 $\frac{1}{4}$ inches.
 Signal yard, 86 feet 9 inches.
 Radio,
 Upper wireless aerial, 93 feet.
 Lower wireless aerial, 66 feet.
 Main deck, at side (Frame No. 89), 11 feet 7 $\frac{3}{4}$ inches.
 Main deck, at C. L. (Frame No. 89), 12 feet 9 $\frac{5}{8}$ inches.
 Top of after deck house, 26 feet 6 inches.
 Freeboard at stem, 17 feet 5 inches.
 Freeboard at stern, 8 feet 5 inches.

CONDITIONS OF LOADING.

Ship complete, ready for service in every respect, with full complement of officers and crew with their effects, and consumable load, is tabulated below, for Normal, Full, and Emergency conditions.

In the design of the vessel the mean draft corresponding to the "designer's water line," viz, 9' 0" inches contemplates the condition of loading given under the heading "NORMAL."

Kind.	Normal.		Full.		Emergency.	
	Quantity.	Weight.	Quantity.	Weight.	Quantity.	Weight.
					<i>Per cent.</i>	
Hull and fittings.....		430		430		430
Machinery (dry).....		363		363		363
Machinery (water).....		43		43		43
Fuel oil.....		150		225	95	275
Reserve feed water.....		14		21		40
Officers and crew.....		10		10		10
Battery.....		41		41		41
Ammunition and ordnance stores.....		36		36		36
Equipment and equipment stores.....		33		33		33
Outfit and stores.....		43		53		65
		1, 163		1, 255		1, 336

Actual draft for normal load=9' 1 $\frac{3}{8}$ ".

Actual draft for full load=9' 6 $\frac{1}{2}$ ".

Officers:
 Commanding officer.....
 Wardroom officers.....
 Seaman branch:
 Chief boatswain's mate.....
 Boatswain's mate, second class.....
 Coxswain.....
 Chief gunner's mates.....
 Gunner's mates, first class.....
 Gunner's mates, second class.....
 Chief quartermaster, navigating.....
 Quartermaster, first class.....
 Quartermasters, second class.....
 Seamen.....
 Ordinary seamen.....
 Total.....
 Artificer branch:
 Electrician, first class.....
 Electricians, first class, radio.....
 Electrician, second class, radio.....
 Carpenter's mate, second class.....
 Total.....
 Artificer branch (engine-room force):
 Chief machinist's mates.....
 Machinist's mates, first class.....
 Machinist's mates, second class.....
 Chief water tender.....
 Water tenders.....
 Boiler maker.....
 Blacksmith.....
 Coppermith.....
 Oilers.....
 Firemen, first class.....
 Firemen, second class.....
 Total.....
 Special branch:
 Yeoman, first class, commanding.....
 Yeoman, second class, engineer.....
 Hospital steward.....
 Total.....
 Commissary branch:
 Ship's cook, first class.....
 Ship's cook, third class.....
 Total.....
 Messmen branch:
 Cabin steward.....
 Cabin cook.....
 Mess attendants.....
 Total.....
 Officers.....
 Crew.....
 Total.....

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 All of the following plans
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DESIGNED COMPLEMENT.

(Section X-3.)

Officers:	
Commanding officer.....	1
Wardroom officers.....	5
Seaman branch:	
Chief boatswain's mate.....	1
Boatswain's mate, second class.....	1
Coxswain.....	1
Chief gunner's mates.....	2
Gunner's mates, first class.....	2
Gunner's mates, second class.....	2
Chief quartermaster, navigating.....	1
Quartermaster, first class.....	1
Quartermasters, second class.....	2
Seamen.....	16
Ordinary seamen.....	13
Total.....	42
Artificer branch:	
Electrician, first class.....	1
Electricians, first class, radio.....	2
Electrician, second class, radio.....	1
Carpenter's mate, second class.....	1
Total.....	5
Artificer branch (engine-room force):	
Chief machinist's mates.....	3
Machinist's mates, first class.....	3
Machinist's mates, second class.....	3
Chief water tender.....	1
Water tenders.....	5
Boiler maker.....	1
Blacksmith.....	1
Coppersmith.....	1
Oilers.....	4
Firemen, first class.....	10
Firemen, second class.....	7
Total.....	39
Special branch:	
Yeoman, first class, commanding officer.....	1
Yeoman, second class, engineer department.....	1
Hospital steward.....	1
Total.....	3
Commissary branch:	
Ship's cook, first class.....	1
Ship's cook, third class.....	1
Total.....	2
Messmen branch:	
Cabin steward.....	1
Cabin cook.....	1
Mess attendants.....	2
Total.....	4

RECAPITULATION.

Officers.....	6
Crew.....	95
Total.....	101

PLANS.

(Section B-1.)

Furnished under the cognizance of the Bureau of Construction and Repair for ship use.

All of the following plans are a part of the ship's regular allowance of articles under cognizance of the Bureau of Construction and Repair, Equipage, Title "B," Class 35.

Additional copies of any plan specified in this list may be issued to the commanding officer at his request for use on board ship. The booklet sets are issued to the commanding officer in sufficient number to provide one copy for each officer in charge of a department or division.

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igner's water line,"
ding "NORMAL."

Emergency.	
Quantity.	Weight.
Per cent.	430
.....	363
.....	43
95	275
.....	40
.....	10
.....	41
.....	36
.....	33
.....	65
.....	1, 336