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DEPARTMENT OF THE ARMY  
Little Rock District, Corps of Engineers  
Post Office Box 867  
Little Rock, Arkansas 72203

LRDR 1125-2-3

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Regulation  
No. 1125-2-3

8 December 1967

PLANT

Identification and Record Information for Floating Plant

1. Purpose and scope. This regulation defines the policy for naming and marking items of floating plant, owned and operated by the Little Rock District, which have an initial cost of \$500 or more, exclusive of outboard motor and trailer. It also stipulates the record information required to be submitted in connection therewith.

2. References.

- a. ER 1125-2-310.
- b. EM 108-1-1.
- c. ER 755-2-1.

3. Names and numbers.

a. Items of floating plant that are acquired by this District and are within the scope of this regulation shall be assigned an LRD number by the Cost Accounting Section in the District Office. CE numbers presently assigned to items of floating plant are hereby rescinded and are to be replaced by the letters "LRD" followed by the same number used in the CE number.

b. Floating plant which falls in the above category and is listed below may be assigned a name in addition to the LRD number.

Patrol boats  
Survey boats  
Towboats  
Reconnaissance boats  
Utility boats  
Supervisor's launches  
Workboats (more than 20 feet in length)  
Dredges  
Tenders

c. Requests to name items of floating plant will be submitted to Chief, Plant and Equipment Section, in the District Office. Naming of floating plant will be in accordance with ER 1125-2-310 and final approval of names will be made by the Chief of Engineers.

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4. Standards for marking.

a. Names and/or other designations of floating plant, except launches and similar type craft, will be placed on vessels in accordance with the accepted custom prevailing within the Corps of Engineers and/or as practiced by leading industrial operators at the localities concerned. The words "CORPS OF ENGINEERS" and "U. S. ARMY" will appear on or near the stern of all vessels. Vessel designations will preferably be displayed on both sides of the bow and on the stern of the hull proper and, where appropriate, on name boards located above the weather deck.

b. The placing of names and/or other designations on the exterior of launches and similar type craft (workboats, patrol boats, small boats, etc.) will be in accordance with the following:

(1) On both port and starboard bows. Name or number of launch, in letters 7 inches high, placed approximately three-fourths of the height between the normal waterline and the edge of the deck forward, and approximately 24 inches back from the stem or forwardmost part of the hull.

(2) Across the stern. Two horizontal lines of vertical letters, as follows, with 4-inch space between lines will be placed across the stern if determined necessary by the Chief, Navigation Branch.

Name or number of launch - 7 inches high  
CORPS OF ENGINEERS U. S. ARMY - 4 inches high

(3) On name boards (applicable only to larger boats). Name or number of launch, of suitable size and with at least 1-inch margin at top, bottom, and ends of board(s). Name boards will normally have blue background with gold lettering. The material used for this purpose may be patent gold leaf letters with a Prussian blue smalt preparation background, or appropriate modern blue and gold reflective or illuminating paint.

(4) Normally, skiffs which initially cost less than \$500, exclusive of the motor and trailer, will not be assigned a name or number. Therefore, no markings should appear on these boats other than the passenger capacity (see LRDR 1125-2-1).

(5) If a name and a number are both assigned to a boat, the name will be used to mark the boat in the manner described herein.

(6) Standard decals will be used for all exterior markings except names. Stencils will be used for names and the lettering will be Gothic block capitals and colored similar to that on the decals. Decals are available upon request to the Chief, Plant and Equipment Section, in the District Office.

(7) Due regard will be had for all interfering or projecting structural members or fittings, such as portholes, stanchions, rubbing strakes, fenders, etc., so that an uninterrupted appearance of the launch identification will be obtained.

5. Descriptive data.

a. Whenever items of floating plant, both revolving fund and project owned, of the types indicated below are constructed or otherwise acquired, data thereon will be compiled on the applicable ENG Form 33B through E, "Description of Plant," and a copy thereof will be transmitted to the Chief, Plant and Equipment Section, within 15 days after delivery of the plant. In the event alterations made to plant require correction of data previously submitted, copies of revised forms will be transmitted within 15 days after completion of the alterations.

b. Applicable forms for submission of data are as follows:

ENG Form 33B - Hydraulic pipeline dredges and booster barges.

ENG Form 33C - Dipper and bucket dredges, derrick boats, maneuver boats, piledrivers, graders, drill boats, and jet probing barges.

ENG Form 33D - Towboats, tugs, tenders, survey boats, patrol boats, small boats (work boats), launches, snagboats, fireboats, and hyacinth plant.

ENG Form 33E - Dump scows, quarterboats, and barges.

c. Stocks of ENG Forms 33B through 33E will be requisitioned from the Chief, Office of Administrative Services, as needed.

d. In order that the information entered on the forms may be directly comparable for evaluation and design purposes, the following definitions are provided for those items where differences in interpretation may occur. Where definitions of terms are not provided, entries required are considered to be self-explanatory. Information entered on "Description of Plant" cards for new or altered plant requiring resubmission of data shall be in accordance with the following definitions, with local entry of supplemental wording as necessary.

(1) LENGTH OVERALL:

(a) ENG Form 33E - The overall length of the hull proper from bow to stern measured from outside to outside of plating, fenders, or other permanently installed structure which is part of the hull.

(b) ENG Form 33B - Same as for 33E above, except that where vessel is fitted with cutter head and ladder or other such appurtenance, the distance from the forwardmost end of the cutter head, when the ladder is in stowed position, to the aftermost fixed hull structure.

(c) ENG Form 33C - Same as for 33B above, except that for vessels fitted with a fixed A-frame or boom which overhangs the hull, the distance from the forwardmost point of this structure, in stowed position, to the aftermost fixed hull structure.

(d) ENG Form 33D - Same as for 33E above, except that where towing knees are installed, the overall length shall include this item or other like items which are an integral part of the vessel.

(2) LENGTH BETWEEN PERPENDICULARS: ENG Form 33D, as applicable - The distance between the forward perpendicular and the after perpendicular defined on the lines plan as the LBP, or the molded length.

(3) LENGTH OF HULL: ENG Forms 33B through 33E - The length of the hull proper, from inside to inside of hull plating on metal boats, or from outside to outside of planking on wood boats, but not including fenders, towing knees, or other appurtenances on the hull.

(4) BEAM, OVERALL: ENG Forms 33B through 33E - The maximum width of the vessel measured from outside to outside of plating, planking, fenders, or other permanently installed structure which is part of the hull.

(5) DEPTH AMIDSHIP, MOLDED: ENG Forms 33B through 33E - The depth of the hull, amidship, measured from the underside of the bulkhead deck plating (or planking) to the molded base line.

(6) DISPLACEMENT, LIGHT - LONG TONS:

(a) ENG Form 33B - The weight, in long tons (2,240 pounds), of the vessel complete and ready for service. It includes: lubricating oil, fuel oil and water in machinery, fire,

sanitary, and fuel lines; and water in suction pipes and dredge pumps, as would be obtained after the dredge had stopped pumping water, the drags raised to the stowed position. It also includes the weight of all engine room spare parts, boatswains and deck stores, mattresses and bedding, the weight of all life boats, rafts and floats fully provisioned, and the weight of any permanently installed ballast. The light ship weight does not include the weight of fuel oil or lubricating oil in settling or storage tanks, fresh water in potable, culinary or feed water tanks, consumable refrigerated or dry stores, the crew, nor their personal effects. It will include the weight of residual water in the suction and discharge lines and in the pumps to a level which would be obtained upon shutting down after pumping water. Spuds should be considered raised and, in the case of dredges, the ladder shall also be considered raised to the stowed position.

(b) ENG Forms 33C through 33E - Same as 33B, as applicable.

(7) DISPLACEMENT, LOADED:

(a) ENG Form 33B - The weight, in long tons, of the light ship plus the normal loading of fuel oil, lubricating oil, water, crew, and effects. Spuds and ladder shall be considered lowered to maximum working positions.

(b) ENG Forms 33C through 33E - Same as 33B, except that in the case of water, oil, and cargo barges, the loaded displacement shall include the weight of cargo based on the design capacity of the vessel.

(8) KEEL, DRAFT, LIGHT, FORWARD, F.W. OR S.W.: ENG Forms 33B through 33E - The light draft forward shall be reported as the mean of the port and starboard drafts as read from the forward draft marks to the nearest one-half inch with the vessel in the condition as reported under DISPLACEMENT, LIGHT. Show by deletion of nonapplicable designation whether drafts as read apply to fresh water (F.W.) or salt water (S.W.).

(9) KEEL, DRAFT, LIGHT, AFT, F.W. OR S.W.: ENG Forms 33B through 33E - The light draft aft shall be reported as the mean of the port and starboard drafts as measured from the after draft marks to the nearest one-half inch with the vessel in condition as reported under DISPLACEMENT, LIGHT. Show by deletion of nonapplicable designation whether drafts as read apply to fresh or salt water.

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- (10) KEEL, DRAFT, LOADED, FORWARD, F.W. OR S.W.: ENG Forms 33B through 33E - The loaded draft forward shall be reported as the mean of the port and starboard drafts as read from the forward draft marks to the nearest one-half inch with the vessel in condition as reported under DISPLACEMENT, LOADED. Show by deletion of nonapplicable designation whether drafts as read apply to fresh or salt water.
- (11) KEEL, DRAFT, LOADED, AFT, F.W. OR S.W.: ENG Forms 33B through 33E - The loaded draft aft shall be reported as the mean of the port and starboard drafts as read from the after draft marks to the nearest one-half inch with the vessel in condition as reported under DISPLACEMENT, LOADED. Show by deletion of nonapplicable designation whether drafts as read apply to fresh or salt water.
- (12) MATERIAL OF HULL: ENG Forms 33B through 33E - Show the principal structural material or combination of principal structural materials used in the fabrication of the hull proper.
- (13) MATERIAL OF SUPERSTRUCTURE: ENG Forms 33B through 33E - Show the principal structural material, or combination of principal structural materials, used in the fabrication of the house or superstructure.
- (14) WHEN BUILT: ENG Forms 33B through 33E - Show month and year of completion of original construction and also show, as necessary, month and year of completion of major conversion.
- (15) WHERE BUILT: ENG Forms 33B through 33E - Show city and State of site of original construction.
- (16) BUILDER: ENG Forms 33B through 33E - Show name of contractor, or indicate if built with Government plant and hired labor.
- (17) PURCHASED OR ACQUIRED FROM: ENG Forms 33B through 33E - Show builder if vessel was contracted for, or show previous owner or owning district if vessel was acquired by direct purchase, transfer, or loan. Show date (month and year) of transaction.
- (18) CONSTRUCTION COST: ENG Forms 33B through 33E - For vessels acquired as a result of a construction contract, show total of funds paid to the contractor for vessel as delivered.
- (19) PURCHASE PRICE: ENG Forms 33B through 33E - For vessels acquired by other than a construction contract, show total of funds expended for the vessel as acquired.

(20) OTHER FIRST COSTS: ENG Forms 33B through 33E - Show total of all costs, other than construction or purchase costs, expended to date the plant was put into productive service.

(21) COST TO DATE: ENG Forms 33B through 33E - Show total of construction or purchase cost, other first costs, and all other costs of additions and betterments or alteration costs to date of latest submittal of Description of Plant card.

(22) CREW REQUIRED - ONE SHIFT OPERATION: ENG Forms 33B through 33E - Show total number of officers and men normally required for a nominal 8-hour day, 5-day week operation while vessel is utilized in its normal functions.

(23) THREE SHIFT OPERATION: ENG Forms 33B through 33E - Show total number of officers and men normally required for a 24-hour day, 7-day week operation while vessel is utilized in its normal functions.

(24) ACCOMMODATIONS OF VESSEL - OFFICERS: ENG Forms 33B through 33E - Show number of berths provided for and assigned specifically for use by officers. Also show in parentheses the additional officer berths provided as spares. MEN: ENG Forms 33B through 33E - Show number of berths assigned specifically for use by members of the crew. Also show in parentheses the additional crew berths provided as spares.

(25) RADIO CALL LETTERS: ENG Forms 33B through 33E - Show assigned radio call letters.

(26) RADAR: ENG Forms 33B through 33E - If vessel is equipped with radar, show manufacturer's name and equipment designation; if no radar, so indicate.

(27) CRUISING RANGE: ENG Forms 33B through 33E - Show the estimated maximum distance, in statute miles, that the vessel can run on its full bunker capacity.

(28) TYPE OF PLANT - OWNERSHIP: ENG Forms 33B through 33E - In addition to defining the type of plant, show in same space either ownership under revolving fund or ownership by specific project, identified by project name.

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(29) VERTICAL CLEARANCE REQUIRED: The maximum height of a vessel, above the waterline, for bridge clearance purposes. This height shall be measured to the highest fixed point of the vessel in the light condition. Movable masts, A-frames, booms, antennae, etc., shall be in a lowered position in determining this figure. (Include under "Remarks" until applicable Forms 33 are revised.)

(30) All other information required on both front and back of all ENG Forms 33 Series is factual to the extent that no definition of terms appears necessary. The information entered should, however, be as complete as possible and should show horsepower, voltage, amperage, dimensions, etc., as rated and shown by the equipment manufacturer of the device installed.

6. Disposal. The Chief, Plant and Equipment Section, will be notified of the disposal of the items of floating plant within the scope of this regulation. The Chief, Supply Division, will be responsible for notifying the Chief of Engineers of the disposal of such items of floating plant within 5 days after their disposal.

7. Photographs of plant. Whenever items of floating plant of the types listed in paragraph 5, hereof, are constructed or otherwise acquired, a record photograph will be made and the negative will be forwarded to the Chief, Plant and Equipment Section, within 15 days after delivery. The following details will be shown in the photograph:

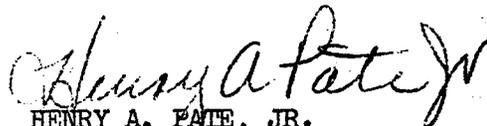
a. One broadside view will be made of the plant at anchor or moored. The background of the photograph should be water if possible.

b. Additional broadside views will be provided if port and starboard structural details are materially different.

c. Additional color photographs will be made if the initial cost of the plant is in excess of \$1,000,000.

d. Ladders and buckets of dredging plant will be above water when the record photograph is made.

FOR THE DISTRICT ENGINEER:

  
HENRY A. FATE, JR.  
Lt Col, CE  
Deputy District Engineer

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