

LIBRARY COPY

Full

SWLOD

DEPARTMENT OF THE ARMY  
Little Rock District, Corps of Engineers  
P. O. Box 867  
Little Rock, Arkansas 72203

LRDR 1125-2-1  
Change 1

Regulation  
No. 1125-2-1

31 October 1969

PLANT

Inspection, Maintenance, Operation, and Repair  
of Floating Plant

The following pen and ink changes will be made:

✓ a. Page 1, subparagraph 5a, lines 3 and 4. Following "vessels" delete the rest of the sentence and substitute the following "in accordance with applicable provisions of CG-257 and CG-123 and the provisions of appendix I of ER 1125-2-304 dated 18 July 1969."

✓ b. Page 4, subparagraph 7b(1), line 1. Change "that are" to "over" and delete "or longer".

FOR THE DISTRICT ENGINEER:

*Robert G. Ferrari*  
ROBERT G. FERRARI  
Major, CE  
Deputy District Engineer

DISTRIBUTION A

SWLOD

DEPARTMENT OF THE ARMY  
Little Rock District, Corps of Engineers  
P. O. Box 867  
Little Rock, Arkansas 72203

*Operation*

LRDR 1125-2-1

Regulation  
No. 1125-2-1

25 April 1969

PLANT

Inspection, Maintenance, Operation, and Repair  
of Floating Plant

1. Purpose. This regulation establishes a guide for the Little Rock District in meeting requirements of ER 1125-2-302.
2. Scope. This regulation prescribes procedures to be followed in connection with inspection, maintenance, repair, and operation of Little Rock District's floating plant, both revolving fund and project-owned, except that the limitations of authorities (paragraph 9) pertain only to revolving fund plant.
3. Applicability. This regulation applies to all personnel responsible for, or involved in, the operation of floating plant.
4. References.
  - a. ER 35-2-10.
  - b. EM 385-1-1.
  - c. EM 1110-1-3400.
  - d. ER 1125-2-303.
  - e. ER 1125-2-304.
  - f. EM 1125-2-306.
  - g. SWDR 1-1-2.
  - h. SWDR 1125-2-1.
  - i. SWDR 1125-2-2.
  - j. LRDR 1125-2-3.
5. Inspection.

- a. The Chief, Plant and Equipment Section, shall arrange for inspection and certification by the U. S. Coast Guard (OCMI) of self-propelled vessels ~~which carry more than six passengers (exclusive of crew) and operate on a navigable waterway (navigable in law).~~ Any deficiencies reported by Coast Guard inspectors shall be corrected without delay so that required documents may be obtained.  
*\* in accordance with applicable provisions of CG-257 + CG-123 + the provisions of appendix I of ER 1125-2-304 dated 18 July 1969.*
- b. All floating plant not covered in subparagraph 5a above shall be maintained and operated in accordance with the regulations of the U. S. Coast Guard. This requirement does not contemplate inspection by

This regulation supersedes LRDR 1125-2-1 dated 17 Sep 62

VDR

LRDR 1125-2-1  
25 Apr 69

the Coast Guard. In lieu of such inspection, each vessel in this category shall be initially inspected by a representative of the Plant and Equipment Section to develop the equipment required for safe operation and for the permissible number of persons that may be carried on board. This information shall be included on ENG Form 3579, Certificate of Inspection, which shall be posted near the operating controls of the vessel. An annual inspection of vessels in this category shall also be made by a representative of the Plant and Equipment Section to assure conformance with the cited criteria. In cases where it is not practical to post the certificate on the vessel, ENG Form 3579 shall be available at the resident, project, or other local office operating the vessel.

c. When a major conversion or rehabilitation is accomplished which involves the safety of the vessel, the Chief, Plant and Equipment Section, shall determine whether an inspection by the Coast Guard is warranted.

d. Differences which cannot be resolved between Little Rock District and the OCMI over the Coast Guard inspection regulations or requirements shall be referred to the Chief of Engineers (ENGOW-OS) with adequate detail to justify an exemption from inspection or development of a solution with the Commandant, U. S. Coast Guard. The Chief, Plant and Equipment Section, shall be responsible for forwarding this information to the Chief of Engineers.

e. When plant is not in use, inspection and certification is optional with the Chief, Plant and Equipment Section.

#### 6. Maintenance and repairs.

a. All floating plant shall be maintained and repaired to meet the requirements imposed by the Chief of Engineers, applicable Coast Guard regulations, the laws of the United States, and laws of the State in which it is operated.

b. Additions, betterments, and repairs shall be performed in accordance with applicable rules or regulations of the Chief of Engineers, American Bureau of Shipping, U. S. Coast Guard, and the U. S. Public Health Service.

#### c. Survey of repairs required.

(1) Each resident engineer shall be responsible for annually analyzing the general condition of all floating plant under his supervision to determine which units will require repairs or replacements, and/or additions and betterments, during the next repair period. The results of his findings shall be submitted in writing to the Chief, Plant and Equipment Section.

(2) The annual analysis prescribed in subparagraph 6c(1) above shall not be considered as a requirement for drydocking or overhauling a vessel every year. Each resident engineer shall establish varying repair cycles for different items of plant, which are based on the location, type of utilization, and the degree of maintenance required for an economical and efficient operation. In order to avoid extended shipyard repair periods and minimize overhaul repair costs, crew members should be regularly assigned maintenance and repair duties within their respective capabilities whenever they are in a duty status and are not otherwise actively employed. Insurance repairs accomplished in anticipation of possible breakdowns during operations should be kept to a minimum.

(3) In connection with the above annual analysis, group and nongroup plant estimates shall be prepared by the Chief, Plant and Equipment Section, on ENG Form 1475, Plant Repairs, and ENG Form 1475A, Plant Repairs Continuation Sheet, only for those items of plant for which repairs or replacements are scheduled and/or additions and betterments are programmed for the next repair season and which have an original cost of \$50,000 or more. For comparative purposes, a description of the repairs, and/or additions and betterments, accomplished on nongroup plant along with actual costs shall be shown on each required ENG Form 1475 for the most recent repair period. Requests for authority for additions and betterments shall be coordinated with the plant replacement and improvement program through the Chief, Plant and Equipment Section. Requests for approval for additions and betterments shall be submitted to the Chief, Plant and Equipment Section, with the following information:

(a) Plant replacement and improvement program reference or recommended adjustment to the plant program.

(b) A complete description of the alteration.

(4) ENG Form 1475 shall be submitted promptly for review and approval by appropriate higher authority. Repair factors included in plant rental computations, ENG Form 22 (Costs), and plant rental distribution rates, ENG Form 2438, Plant Record Card - Grouped Items, shall be reviewed and analyzed by the District Cost Accounting Section in accordance with EM 1125-2-306. A copy of each ENG Form 22 (Costs) and of each ENG Form 2438, or revision thereof, shall be furnished ENGCW-OS.

(5) Any repair or addition and betterment item of work accomplished which may relate to the design of future plant, or which would significantly improve the efficiency of similar existing plant, shall be reported to the Chief of Engineers, ATTN: ENGCW-OS, by the Chief, Plant and Equipment Section. The report should include sufficient details and,

LRDR 1125-2-1

25 Apr 69

as appropriate, drawings or other data which could be readily disseminated to other Corps of Engineers Division Offices.

7. Operation.

a. All floating plant shall be operated to meet the requirements imposed by the Chief of Engineers, the laws of the United States, and the laws of any State in which it is operated.

b. Any employee who operates a motorboat (any self-propelled vessel 65 feet in length, or less) shall be certified by the Little Rock District or the U. S. Coast Guard except as stated in subparagraph 7c below.

(1) Operators of all motorboats <sup>over</sup> ~~that are~~ 30 feet in length ~~or longer~~ must hold a valid Operator's License issued by the U. S. Coast Guard. Such license must be kept current and must be posted aboard the item of plant on which the operator is regularly employed. Such plant will not be operated by personnel not holding such a valid license, except in an emergency endangering human life or Government property, or when the regular operator is incapacitated during a trip, or due to other valid emergency conditions.

(2) Operators of self-propelled floating plant, not more than 30 feet in length, must hold a valid license, ENG Form 3962, issued by the Little Rock District to operate such plant. This includes survey skiffs and all other inboard and outboard powered craft. Written and performance tests for such licenses will be administered by the Plant and Equipment Section, Operations Division. Requests for testing operators will be forwarded by resident engineers and others supervising such plant to the Chief, Plant and Equipment Section. Licenses issued on ENG Form 3962 are not valid for transporting personnel to and from a jobsite on a scheduled or recurring basis.

c. Persons who do not have the experience to operate a motorboat, and have a need to learn, may obtain experience while actually operating a boat under the direct supervision and instruction of a certified operator.

d. All boats shall be operated in accordance with the provisions of EM 385-1-1, General Safety Requirements; Little Rock District Motorboat Operator's Manual; State Boating Laws; and Rules of the Road, Western Rivers, where applicable.

e. Logbooks on launches.

(1) In order to provide record information as to the use of Government vessels, including that necessary to substantiate the fact that the vessels are used only for Government business, a logbook will be maintained by the

*Operation*  
LRDR 1125-2-1  
25 Apr 69

operator of each class 2 and class 3 motorboat to include the following information relative to each trip:

- (a) Date.
  - (b) Time trip started.
  - (c) Route, destination, and approximate distance.
  - (d) Purpose of trip (brief statement).
  - (e) Names of passengers carried (for survey parties, number only is adequate).
  - (f) Time trip completed.
  - (g) Number of hours engines operated.
  - (h) Fuel consumed.
  - (i) Operating incidents (include under this heading such items as striking floating logs, running aground, and other accidents of a minor nature).
  - (j) Changes in operating characteristics of boat engines or equipment.
  - (k) Project problems (items the operator may note that should be brought to the attention of higher authority such as encroachments, damage to dikes, revetments, etc.).
- (2) Further, an entry shall be made for each regular workday, when the launch is not used, with appropriate notation, such as "Standing By," "Under Repair," etc.
- (3) Information should be included in the logbook as to quantities of fuel and lubricating oil purchased, extent of repairs, and daily or monthly cumulative totals of engine hours since engine installation or major engine overhaul, whichever is later.
- (4) The information required by subparagraph 7e(1) above shall be entered for all trips on which the vessel is used, of whatever nature. It will not be restricted to trips when guests are aboard.

LRDR 1125-2-1  
Change 2  
25 Feb 70

(5) The above is not intended to limit information being maintained in the logbooks but merely to set forth a minimum of required information to provide a basis for annual inspection and audit.

(6) The logbook shall be maintained in a permanently bound ledger-type book, not looseleaf. Entries may be in pencil but shall be neat and legible. Erasures shall not be made. In case corrections are necessary, a single line shall be drawn through the incorrect information. The correct information will then be entered alongside.

f. Reports of plant operations.

(1) Monthly, job, or annual Report of Operations - Cutterhead and Dustpan Pipeline Dredges, ENG Form 28 (Costs), shall be submitted to the Chief, Navigation Branch, for Government-owned or rented dredges and for contract dredging operations. A copy of each report shall be forwarded to the Division Engineer, South Atlantic Division, for preparation and distribution of an annual Consolidated Statement of Operations - Cutterhead and Dustpan Pipeline Dredges and an annual Analysis of Consolidated Statement of Operations - Cutterhead and Dustpan Pipeline Dredges.

(2) For the above consolidated statements to be of value to dredge-operating forces, personnel concerned shall analyze the tabulated data and review current dredging methods and techniques to assure optimum economical utilization of dredges.

\* g. Operation of small boats on the Arkansas River.

(1) The following rules will be complied with for operation of boats 16 feet and less in length.

(a) They will not be used in turbulent water or near lock and dam gates.

(b) Outboard motors will be kept in best possible condition. Preventive maintenance must be highly stressed.

(c) Spare parts such as pins, sparkplugs, prop, etc., will always be carried. A toolkit with the tools required to work on the motor being used will also be carried.

LRDR 1125-2-1  
Change 2  
25 Feb 70

(d) Paddles or, if oarlocks can be installed on the boat, oars will be carried on board. Personnel who operate the boats will be trained in the use of paddles and/or oars.

(e) Where possible, radios will be carried on board and contact maintained with land parties.

(f) An ample supply of fuel will always be carried.

(2) Boats, 18 feet and longer, may be used to operate in turbulent waters or near lock and dam gates when required provided they are powered by twin motors. The motors will be of sufficient size so that one motor will be able to supply sufficient power in case one motor becomes inoperative. In the cases where the boats are propelled by outboard motors, they will be controlled and operated by twin remote control kites.

\*

#### 8. General.

a. The permissible number of passengers in skiffs or boats of the Corps of Engineers will be the number that can safely be placed in fixed seats, allowing not less than 18 inches of seat per passenger. Each skiff or boat will have the number of persons allowed plainly marked on each bow in letters and figures not less than three-fourths of an inch high. Standard decals, available upon request to the Chief, Plant and Equipment Section, shall be used to mark the passenger capacity where applicable.

b. Flags for vessels. All motorboats, except small work launches, shall carry the Corps of Engineers flag between 0800 hours and sunset, unless the particular work on which the boat is engaged renders the display of flags impractical. All class 2 and class 3 motorboats shall carry the American ensign during the same hours and under the same working conditions. In addition, a Division or District Engineer pennant shall be flown to denote the presence of the Division Engineer or District Engineer

aboard the boat. The locations at which the flags are to be flown are given in the table below. The size of the Corps of Engineers flag shall be 12 by 18 inches on class A and class 1 boats and 2 by 3 feet on class 2 and class 3 boats. The size of the American ensign shall be 2.37 by 4.5 feet.

Vessels equipped with	Ensign	CofE flag	Dist Engr pennant	Div Engr pennant
Bow staff only	Not flown	Bow*	Bow	Bow
Bow and stern staffs only	Stern	Bow*	Bow	Bow
Bow staff and mast only	Mast	Bow*	Bow	Bow
Stern staff and mast only	Stern	Mast*	Mast	Mast
Bow and stern staffs and mast	Stern	Bow	Mast	Mast

\* Will not be flown when either pennant is flown.

c. Painting standards. The color scheme for each item of floating plant will be established by the Plant and Equipment Section immediately after acquisition and in accordance with existing regulations. This color scheme will not be changed without prior approval of the Plant and Equipment Section.

d. Standards for marking. The method of marking names and/or other designations and ownership on each item of floating plant will be established by the Plant and Equipment Section immediately after acquisition and in accordance with existing regulations. These markings will not be changed without prior approval of the Plant and Equipment Section.

e. Equipment and stores for vessels.

(1) Operators or others designated in charge of Corps of Engineers vessels shall be held responsible that the equipment required by law or safety of the vessel and its crew is always on board when their vessels are in use.

(2) A list of required equipment for the various classes of vessels is shown in the Little Rock District Motorboat Operator's Manual.

f. Motorboat Operator's Manual. All offices shall comply with the rules and regulations set forth in the Little Rock District Motorboat Operator's Manual.

LRDR 1125-2-1  
25 Apr 69

9. Authority for repairs and replacements, and additions and betterments.  
Approval by higher authority shall be required for the following repairs and additions and betterments to revolving fund-owned floating plant:

a. Repairs.

(1) Repairs to nongroup plant costing more than 30 percent of the total cost of the plant in any one fiscal year.

(2) Repairs to group plant costing more than the currently approved total annual group repair cost for the plant record card group items.

(3) Emergency repairs to plant costing more than \$25,000 for any one emergency, or 30 percent of the total cost of the plant, whichever is larger. The term "emergency" applies to work required due to accident or breakdown of machinery while plant is in actual commission.

b. Additions and betterments to plant costing more than \$5,000 per item per year, or 10 percent of the current book value, whichever is less.

FOR THE DISTRICT ENGINEER:



R. G. BARBOUR  
Acting Executive Officer

DISTRIBUTION A