

ENGINEERING DIRECTIVES AND STANDARDS

Volume	Chapter	Section	Directive Number	Effective Date
III	2	5	6	6/26/1978

SUBJECT: MOVABLE BRIDGES - DESIGN, CONSTRUCTION AND MAINTENANCE TRAINING REQUIREMENTS

1. **PURPOSE:** To establish a uniform policy for contract requirements for furnishing and storage of maintenance equipment to be delivered by the contractor.
2. **SCOPE:** This directive covers the minimum standards for contract requirements regarding special tools, preventative maintenance schedules, operation instructions and storage areas for movable bridge equipment. It also outlines procedures for accepting this equipment on behalf of the Department.
3. **POLICY:** The following procedure will be followed in plan and contract preparation and acceptance of maintenance and operation instructions and various other items required for proper operation of a movable bridge. This is in accordance with Louisiana Standard Specifications for Roads and Bridges 1977 Edition for State of Louisiana Department of Transportation and Development, Office of Highways.

A. The plans and/or project specifications will require the following:

- (1) (a) A suitable storage area, in the bridge tenders house, that is lockable, with 4 sets of keys.
(b) Provision shall be made for posting operational instructions and lubrication charts under plexiglass desk cover.
- (2) The maintenance and instruction booklets required under Subsection 801.03(f) (2), shall provide a separate list and charts for mechanical and electrical equipment as follows:
 - Special tools (name and size) on machinery, electrical installations and adjustments showing location and required adjustment.
 - Lubrication equipment, type of lubricants, chart showing location to be serviced and frequency required.
 - Instructions and charts covering the complete operation of the bridge.

B. The Project Engineer will require that:

The contractor will obtain all lists, charts and adjustment instructions and use them in erection and adjustments of machinery. Upon completion of erection and before operation, the contractor will insure that:

- All machinery has been properly lubricated.
- All operation instructions and charts for lubrication and instructions have been received.
- The special tool lists have been received.
- Six copies of all lists, instructions, operations, lubrication charts and manuals are furnished as soon after erection as possible. The electrical and mechanical manuals will be submitted to the Project Engineer for verification before acceptance. After, as built verification by Project Engineer, they will be approved and distributed by the Bridge Design Section to the (1) District, (2) Bridge Operating House, (3) Bridge Design Engineer, (4) Headquarters Bridge Maintenance Engineer (2 copies), and (5) Marine Unit.
- That training of Department's personnel (bridge tender, mechanical, electrical and bridge gang) has been accomplished in accordance with special provisions and standard specifications.

- C. The Assistant District Engineer (maintenance), at the time of final inspection, will check all of the above to insure compliance before acceptance of project. He will write a letter certifying all was received in good condition and assign them under the responsibility of the area Bridge Maintenance Foreman, or in the event there is no assigned Bridge Maintenance Foreman the specialist in charge of bridge maintenance and repair crews, who will sign a form prepared by the Assistant District Engineer (maintenance) stating that: "I received all required special tools-equipment lists and understand that I am to advise my supervisor of any tools that are not DOTD Stock Items. I have also reviewed the Maintenance and Operation Instruction Booklets. I further certify that all training was fully received by bridge tenders, bridge mechanical-electrical and/or bridge gangs in accordance with special provisions and the standard specifications. These personnel understand and are capable of providing proper operation, maintenance, adjustment and lubrication of the structure in question".

4. OTHER ISSUANCES AFFECTED: This directive replaces EDSM III.2.5.6, dated November 18, 1976.

5. EFFECTIVE DATE: This directive will become effective immediately upon receipt.

On projects already under contract, the requirements of this directive will be implemented through consultation and approval of the Construction Section.

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