

DEPARTMENT OF THE ARMY
U.S. Army Corps of Engineers
Washington, DC 20314-1000

EM 1110-2-2702

CECW-ET

Manual
No. 1110-2-2702

1 January 2000

Engineering and Design
DESIGN OF SPILLWAY TAITER GATES

1. Purpose. This manual provides guidance for the design, fabrication, and inspection of spillway taiter gates, trunnion girder, and trunnion girder anchorage for navigation and flood control projects. Load and resistance factor design (LRFD) criteria is specified for design of steel components. Allowable stress design (ASD) criteria is provided in EM 1110-2-2105 and may be used only with prior approval of CECW-ET. Orthotropic shell, vertical framed, and stress skin-type taiter gates may be suitable in some locations but are not covered in this manual. Other types of control gates, including radial lock valves (reverse taiter valves) and sluice gates, may be referred to as taiter gates but also are not included in this manual.

2. Applicability. This manual applies to USACE commands having responsibility for Civil Works projects.

FOR THE COMMANDER:



Major General, USA
Chief of Staff