

Errata SheetNo. 1

Engineering and Design

REMOTE CONTROL AND OPERATION OF WATER CONTROL SYSTEMS

EC 1110-2-6071

31 July 2010

Paragraph 3 on page 1 contains omits a reference. An additional reference should be added after paragraph 3.b. The added paragraph should read: c. ER 1110-2-8156, Preparation of Water Control Manuals, 31 August 1995.

Paragraph 3 on page 1 the remaining paragraphs starting with published 3.c. should be renumbered 3.d. through 3.n.

Paragraph 3.d. on page 1 contains the incorrect date and should read: ER 1110-2-8157, Responsibility for Hydraulic Steel Structures, 15 June 2009.

Paragraph 3.e. on page 1 contains an error and should read: ER 1110-8-2 (FR), Inflow Design Floods for Dams and Reservoirs, 1 March 1991.

Paragraph 6.a. on page 3 contains duplicated sentences (sentences 3 through 6). The paragraph should read: Operation of water control systems can be accomplished in various forms. The U.S. Army Corps of Engineers (USACE) has installed remotely controlled and remotely operated systems to operate tainter gates, sluice gates, and valves on flood risk management, hydropower, and navigation projects throughout the nation. The concept of remote operation is that a water control system can be operated from an offsite office location by offsite personnel without requiring the operator to physically travel to the site for local operation. This approach can also improve the efficiency of operations and reduce staffing requirements. The remote method of operation could allow one person to operate multiple water control systems at different projects from a single location. The remote operation location can be a regional project office, District office, or other appropriate facility depending on the distance from the project site. The concept of automatic operation is that a water control system can be operated without any direct input from personnel. The system uses automated instrumentation data to make operational decisions based on a pre-defined set of decision

criteria. An example of an automatic operation could be a pump station that uses floats to automatically activate the pumps when required.

Paragraph 7.g. on page 4 references the wrong paragraph. The paragraph should read: For projects with existing remotely controlled, remotely operated, or automatically operated water control systems, a plan shall be developed to implement the requirements of this regulation. The plan and timeline for implementation shall be approved in accordance with the requirements of paragraph 12 of this circular.

Paragraph 8.e. on page 5 is missing a word. The paragraph should read: Confirmation. Prior to operating a water control system, the operator shall visually inspect by personal observation and/or remote camera viewing the following: gate opening, downstream gage, personnel in gate and/or discharge areas.