

APPENDIX A
References

A-1. Federal Publications

TM 5-811-1
Electric Power Supply and Distribution

TM 5-853-4
Security Engineering Electronic Security Systems

ER 1110-2-100
Periodic Inspection and Continuing Evaluation of Completed Civil Works Structures

ER 1110-2-112
Required Visits to the Construction Sites by Design Personnel

ER 1110-2-1150
Engineering and Design for Civil Works Projects

EM 385-1-1
Safety and Health Requirements Manual

EM 1110-2-1424
Lubricant and Hydraulic Fluids

EM 1110-2-1610
Hydraulic Design of Lock Culvert Valves

EM 1110-2-2105
Design of Hydraulic Steel Structures Change 1

EM 1110-2-2608
Navigation Locks - Fire Protection Provisions

EM 1110-2-2701
Vertical Lift Gates

EM 1110-2-2702
Design of Spillway Tainter Gates

EM 1110-2-2703
Lock Gates and Operating Equipment

EM 1110-2-2610
12 Dec 03

EM 1110-2-3200
Wire Rope Selection Criteria for Gate-Operating Devices

EM 1110-2-3400
Painting: New Construction and Maintenance

EM 1110-8-1(FR)
Winter Navigation on Inland Waterways

UFGS 09965A
Painting: Hydraulic Structures

UFGS 15010A
Hydraulic Power Systems for Civil Works Structures

UFGS 16905A
Electrical Equipment for Gate Hoist

CERL Report No. 99/104
Greaseless Bushings for Hydropower Applications: Program, Testing, and
Results, John A. Jones, Rick A. Palylyk, Paul Willis, and Robert A. Weber, (1999).

REMR Bulletin Vol 12 No 2
Use of Radiant Heaters to Prevent Icing, F. Donald Hayes, Robert Haehnel, and Charles H. Clark
(1995)

WES Technical Report No. 2-309
Filling characteristics, Algiers Lock, Intracoastal Waterway, Gulf section, Louisiana : model
investigation, Vicksburg, Miss. : U.S. Army Engineer Waterways Experiment Station, 1951.

WES Technical Report No. 2-651
Operating forces on miter-type lock gates, Vicksburg, Miss. : U.S. Army Engineer Waterways
Experiment Station, 1964.

WES Technical Report No. CHL-TR-03-3
Filling and Emptying System for Inner Harbor Navigation Canal Lock Replacement, Louisiana

WES Technical Report No. H-70-2
Operating forces on sector gates under reverse heads. hydraulic model investigation / by N.R.
Oswalt, T.E. Murphy ; sponsored by U.S. Army Engineer District, New Orleans; conducted by
U.S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi. Oswalt, Noel R.

WES Technical Report No. H-71-4
Calcasieu Saltwater Barrier, prototype sector gate, sponsored by U.S. Army Engineer District,

New Orleans ; conducted by U.S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi, Bastian, David F.

Concept Report, Automation and Remote Control of Kaskaskia Lock and Dam, US Army Corps of Engineers, St. Louis District.

Trip Report, European Initiatives in Lock Automation and Remote Control, US Army Corps of Engineers, St. Louis District.

Ashok Kumar, Henry Cardenas, USACERL, Automated Control of Navigation Locks.

Memorandum, Nashville District Locks Controls Task Force Report, 1996.

John T Behrens, Mississippi River Lock Bubbler Systems and Illinois Waterway Starved Rock Lock

F. Donald Haynes P.E., Mechanical Engineer, Ice Engineering Research Division, Cold Regions Research and Engineering Laboratory, Program Name: Bub-300, Language: HP-BASIC, 1984.

Jim Bartek P.E., Mechanical Engineer, General Engineering Branch, Rock Island District, Program Name: Bub-300, Language: FORTRAN, 1997.

Kevin L. Carey, Melting Ice with Air Bubblers, (Cold Regions Technical Digest No. 83-1, March 1983).

Portland District, PLC Based Control System at the Bonneville Navigation Lock, Brandt D. Bannister, Duncan Kwong, P.E., Jeffery L. Nelson, P.E.

Rick W. Schultz, P.E., Results of the Olmstead Hydraulic Operated Wicket Dam, 1998 Heartland Technology Transfer Conference Proceedings

A-2. Industry Standards

American National Standards Institute (ANSI)
B93.30M, Hydraulic Fluid Power-contamination Analysis Data-reporting Method

American Society for Testing and Materials (ASTM)
A36, Standard Specification for Carbon Structural Steel

American Society for Testing and Materials (ASTM)
A108, Standard Specification for Steel Bars, Carbon, Cold-Finished, Standard Quality

American Society for Testing and Materials (ASTM)
A148, Standard Specification for Steel Castings, High Strength, for Structural Purposes

EM 1110-2-2610
12 Dec 03

American Society for Testing and Materials (ASTM)
A290, Standard Specification for Carbon and Alloy Steel Forgings for Rings for Reduction Gears

American Society for Testing and Materials (ASTM)
A291, Standard Specification for Steel Forgings, Carbon and Alloy, for Pinions, Gears and Shafts for Reduction Gears

American Society for Testing and Materials (ASTM)
A519, Standard Specification for Seamless Carbon and Alloy Steel Mechanical Tubing

American Society for Testing and Materials (ASTM)
A564, Standard Specification for Hot-Rolled and Cold-Finished Age-Hardening Stainless Steel Bars and Shapes

American Society for Testing and Materials (ASTM)
A668, Standard Specification for Steel Forgings, Carbon and Alloy, for General Industrial Use

American Society for Testing and Materials (ASTM)
A705, Standard Specification for Age-Hardening Stainless Steel Forgings

American Society for Testing and Materials (ASTM)
B271, Standard Specification for Copper-Base Alloy Centrifugal Castings

American Society for Testing and Materials (ASTM)
B505, Standard Specification for Copper-Base Alloy Continuous Castings

American Society for Testing and Materials (ASTM)
B584, Standard Specification for Copper Alloy Sand Castings for General Applications

Deutsches Institut Fur Normung (DIN)
22252, Steel Chains (Round Link) for Use with Conveyors and Coal-getting Equipment in Mining: Calibrated, Tested

National Fire Protection Agency (NFPA)
70, National Electrical Code

Society of Automotive Engineers (SAE)
J517, Hydraulic Hose

A-3. Other References

Columbus McKinnon Corporation, Mechanical Handling Systems, Amherst, New York.

Beck Associates, Seattle, Washington.

KJWW Engineering Consultants, Rock Island, Illinois.

PC Webopaedia Definitions and Links — Network [encyclopedia on-line] (Sandy Bay Software, Inc., 1996, accessed 20 March 1998); <http://www.pcwebopaedia.com/network.htm>.

Howe, Dennis 1993 “The Free On-line Dictionary of Computing”, available from <http://wombat.doc.ic.ac.uk/> and <http://www.realtime-info.be/encyc/techno/terms/0/0.htm>

Grigonis, Richard 1997 “Pennywise and Desktop Foolish,” Computer Telephony Magazine.

Industrial Computer Source, Source-Book, 1998 Computer Systems Edition 2.

Vaughn, Michael 1997, “How to specify INDUSTRIAL PCs,” Industrial Computer Source Product Specification Guide.

Diversified Technology, Industrial Computer Product Catalog, Volume XIV, Fall 1997.

Gigabit Ethernet Alliance, “Whitepaper: Gigabit Ethernet, accelerating the standard for speed,” 1997, accessed 20 March 1998; available from <http://www.gigabit-ethernet.org/technology/whitepapers/>; Internet.

Gigabit Ethernet Alliance, “Whitepaper: Gigabit Ethernet, 1000BASE-T,” 1997, accessed 20 March 1998; available from <http://www.gigabit-ethernet.org/technology/whitepapers/>; Internet.

VME Microsystems International Corporation, “Whitepaper: Reflective Memory Network,” 9 February 1996, accessed 12 November 1997; available from <http://www.vmic.com/whitepap.html>; Internet.

Anixter, Wiring Systems Product Catalog — Glossary, 1991-1992 Edition.

Belden Wire and Cable, Fiber Optic Catalog, 1990.

Group Schneider Modicon Catalog & Specifier’s Guide, 1995.

Rockwell Automation, Allen Bradley Industrial Controls Catalog, 1997.

Clarence A. Phipps, “Variable Speed Drive Fundamentals”, copyright 1994.

Vicon Industries, Vicon’s Complete Guide to CCTV Systems, 1996.

Pelco, Closed Circuit TV Systems Product Specification Book, 1996.