

TASK COMMITTEE REPORT ON RECOMMENDATIONS FOR STANDARDS IN HYDRAULICS

ASCE's interest in generating standards prompted its Hydraulics Division in 1991 to appoint a Task Committee for reporting on whether certain activities in hydraulic engineering should be standardized. At the outset, the answer seemed not immediately clear because the science of fluid mechanics, the foundation of hydraulic engineering, has elements that frequently defy prediction, let alone standardization. The Committee produced a report, "Recommendations for Standards in Hydraulics," in the format of an ASCE Special Publication so that information on this topic could be generally available and so that a synopsis could be published in the *Journal of Hydraulic Engineering*. The report was published in 1994 and is available from ASCE. This Forum Article is a synopsis of the report, the content and conclusions of which remain relevant today. The article aims at drawing attention to the report and its useful annotated summary of the many U.S. and foreign standards and guidelines in hydraulic engineering. It also aims at stimulating further discussion on standards in certain areas of hydraulic engineering.

Objectives

The Task Committee's initial objectives were limited to three:

- Determine if any activities in hydraulic engineering should be standardized.
- If standards are recommended, establish priorities for the topics and assess the effect of their standardization on the profession.
- Prepare a written report of findings.

However, once the Committee began its deliberations, additional objectives were established:

- Conduct a survey to determine the interest of practicing hydraulic engineers in additional guides and standards.
- Prepare an annotated bibliography of available guides and standards in hydraulics.

The Committee was specifically not charged with generating standards.

Approach

In recognition of the design implications of standards and guidelines, the Committee's membership was selected from engineering firms rather than academic circles. Its members evaluated their own experience and professional activities and discussed their findings. They quickly concluded that input from a broader base was required to provide a better consensus on the need for standards and guidelines. Therefore, practicing engineers were surveyed to determine what existing standards were being used and whether additional standards in hydraulics would be beneficial or harmful. It soon became apparent to the Committee that the profession in general was not fully aware of all the published standards and guides relating to hydraulics. Consequently, the Committee set out to prepare a list of such documents, both U.S. and international, and to annotate the entries such that the general content of the published material would be readily available to the profession. The Committee's report contains the annotated list with key

words to enable easy reference to available standards by technical topic.

Definitions

There are various definitions of standards and standardization. The generic term "standard" in ASCE terminology means a consensus document prepared by members and nonmembers of the Society in accordance with the Society's Rules for Standards Committees. ASCE defines a standard as "a prescribed set of rules, conditions, or requirements concerned with: definitions of terms; classification of components; delineation of design or operations; description of dimensions, materials, performance, design or operation; description of fit and measurement of size; or measurement of quality and quantity in describing materials, products, systems, services, or practices." Standards may be mandatory or nonmandatory.

A standard intended to be mandatory shall be enforceable and shall be worded so that a person auditing its application can point out where it has been followed, or the extent to which it has or has not been followed. Items of a nonmandatory nature included in a mandatory standard shall be placed in the commentary. Mandatory standards may cover test methods, specifications, designs, contract documents, or drawings, and may include standards intended for adoption in codes. Nonmandatory standards include guidelines that offer a series of options or instructions but do not recommend a specific course of action. They also include "standard practice," which gives a reasonably definitive procedure for performing one or more specific operations or functions. All standards should be suitable for repetitive use, definitive, realistic, technically sound, clear, and consistent, and should cover a limited scope. (The above descriptions are from "Procedures, Form, and Style for Standards of the ASCE Codes and Standards Committee.")

Pros and Cons

The main purpose of standards is quality assurance in technical performance and industrial production. Adherence to the respective standards will assure the use of an acceptable level of technology in industry and in professional practice. Standards are also helpful in allowing less developed countries to quickly assimilate methods and procedures that are compatible with those of highly industrialized countries. They establish a platform for further in-depth study and provide a checklist of items to be considered in the course of solving a problem. Standards fix a certain procedure whose development has reached sufficient maturity, so as to make it repeatable at different times and locations, under different circumstances, and by different people. They increase the likelihood of performance as expected and protect the user of engineering services which are supplied from diverse sources. Standards also assure that integral parts from different producers can be assembled into a functioning whole with a minimum of trouble and cost.

Many engineers view standardization with suspicion. They fear that standards impose a rigid framework and, therefore, act as a hindrance to engineering creativity, judgment, and competition. Though many things can be standardized, intelligent decisions must be made as to what should be standardized. These fears may be justified by recent experiences in European countries, where controlling the flood of standards creates a problem in itself. Standards do not necessarily fix procedures forever. The average life of a standard from its introduction until review is usually limited to about five years.

Standards give assurance that generally acknowledged rules of the technical state of the art are being applied to the pro-

Recommendations For Standards In Hydraulics

Lei Shi

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

Recommendations For Standards In Hydraulics:

Recommendations for Standards in Hydraulics American Society of Civil Engineers, 1994-01-01 Prepared by the Task Committee on Recommendations for Standards in Hydraulics of the Hydraulics Division of ASCE This report investigates whether standards or guides are useful to hydraulic engineers and whether additional standards or guides should be prepared The results of a questionnaire indicate that most hydraulic engineers are not familiar with the procedures used to develop standards or with existing national or international standards However responses to the questionnaire show that hydraulic engineers welcome guides or standards as long as some flexibility to use engineering judgment for site specific conditions is allowed The report recommends that guidelines or consensus standards be developed in the following areas application of one dimensional surface water computer programs of the HEC 2 type prediction of scour at bridge piers design of pump intakes and sumps and calculations of friction and form losses in closed conduits Annotated lists of standards and guidelines produced in the United States and abroad are included

Recommendations for Standards in Hydraulics American Society of Civil Engineers. Task Committee on Recommendations for Standards in Hydraulics, 1994-01-01 This committee report surveys the current awareness use and usefulness of existing U S and international hydraulics standards and guides for practicing engineers Composed largely from the responses to the committee s questionnaire the report also addresses the question of whether additional standards and guides in hydraulics should be prepared Prediction of scour at bridge piers design of pump intakes and sumps and calculations of friction and form losses in closed conduits are among the technical areas that guidelines or standards are recommended BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved Standards of the Hydraulic Society Hydraulic Institute (Cleveland, Ohio), 1925

Standards of the Hydraulic Society Hydraulic Society, 1927 **Standards of the Hydraulic Society**, 1925

Comprehensive Guideline for Procurement of Products Containing Recovered Materials DIANE Publishing Company, 1996-03 The EPA s proposal for a Comprehensive Procurement Guideline designating items that are or can be made with recovered materials Covers background materials in solid wastes benefits of recycling requirements criteria for selecting items for designation and methodology for selecting items for designation paper and paper products vehicular products construction products transportation products park and recreation products landscaping products non paper office products and more Tables **An Index of U.S. Voluntary Engineering Standards** United States. National Bureau of Standards, 1971 **Development Document for Effluent Limitations Guidelines and New Source Performance**

Standards for the Phosphorus Derived Chemicals Segment of the Phosphate Manufacturing Point Source

Category United States. Environmental Protection Agency, United States. Environmental Protection Agency. Office of Air and Water Programs. Effluent Guidelines Division, 1974 An Index of U.S. Voluntary Engineering Standards William J.

Slattery, 1971 Smart Grid Standards Takuro Sato, Daniel M. Kammen, Bin Duan, Martin Macuha, Zhenyu Zhou, Jun

Wu, Muhammad Tariq, Solomon Abebe Asfaw, 2015-02-02 A fully comprehensive introduction to smart grid standards and their applications for developers consumers and service providers The critical role of standards for smart grid has already been realized by world wide governments and industrial organizations There are hundreds of standards for Smart Grid which have been developed in parallel by different organizations It is therefore necessary to arrange those standards in such a way that it is easier for readers to easily understand and select a particular standard according to their requirements without going into the depth of each standard which often spans from hundreds to thousands of pages The book will allow people in the smart grid areas and in the related industries to easily understand the fundamental standards of smart grid and quickly find the building block standards they need from hundreds of standards for implementing a smart grid system The authors highlight the most advanced works and efforts now under way to realize an integrated and interoperable smart grid such as the NIST Framework and Roadmap for Smart Grid Interoperability Standards Release 2.0 the IEC Smart Grid Standardization Roadmap the ISO IEC's Smart Grid Standards for Residential Customers the ZigBee HomePlug's Smart Energy Profile Specification 2.0 IEEE's P2030 Draft Guide for Smart Grid Interoperability of Energy Technology and Information Technology Operation with the Electric Power System EPS and End Use Applications and Loads and the latest joint research project results between the world's two largest economies US and China The book enables readers to fully understand the latest achievements and ongoing technical works of smart grid standards and assist industry utilities vendors academia regulators and other smart grid stakeholders in future decision making The book begins with an overview of the smart grid and introduces the opportunities in both developed and developing countries It then examines the standards for power grid domain of the smart grid including standards for blackout prevention and energy management smart transmission advanced distribution management and automation smart substation automation and condition monitoring Communication and security standards as a whole are the backbone of smart grid and their standards including those for wired and wireless communications are then assessed Finally the authors consider the standards and on going work and efforts for interoperability and integration between different standards and networks including the latest joint research effort between the world's two largest economies US and China A fully comprehensive introduction to smart grid standards and their applications for developers consumers and service providers Covers all up to date standards of smart grid including the key standards from NIST IEC ISO ZigBee IEEE HomePlug SAE and other international and regional standardization organizations The Appendix summarizes all of the standards mentioned in the book Presents standards for renewable energy and smart generation covering wind energy solar voltaic fuel cells pumped storage distributed generation and nuclear generation standards Standards for other alternative sources of energy such as geothermal energy and bioenergy are briefly introduced Introduces the standards for smart storage and plug in electric vehicles including standards for distributed energy resources DER electric storage and E mobility plug in vehicles The book is written in an accessible style ideal as an

introduction to the topic yet contains sufficient detail and research to appeal to the more advanced and specialist reader

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