Pipeline Construction Planning Management And Quality

Using one example project throughout (a bridge), this construction management textbook has been completely for the 1990's. New features include added emphasis on computers and their impact on the management of construction projects. The use of network techniques to control projects and settle disputes is also studied in more detail.

A complete update of the definitive guide to the planning and scheduling of construction projects Now with a dedicated Web site containing a downloadable version of the premier CPM scheduling software program: Micro Planner Manager(r) from MicroPlanning International for both Windows(r) and Macintosh platforms This Fourth Edition of Construction Project Management reaffirms the book's status as the industry's leading, definitive guide to the Critical Path Method (CPM) of project scheduling. It combines a solid foundation in the principles and fundamentals of CPM with particular emphasis on project planning. A highway bridge with a complete cost estimate is used to illustrate each of the principles of project management. Using this basic information and the case studies in the appendix, students are given project management problems and hands-on project management experience. Important
features of Construction Project Management, Fourth Edition include: Complete coverage of planning and scheduling principles that apply to every type of construction project Special emphasis on the most difficult and important part of CPM—the planning process A new chapter on production planning, the process of turning the project plan into efficient workplace operations New methods for handling construction contingency planning and weather delays In-depth coverage of the legal aspects of CPM scheduling Large illustrations conveniently tucked into a back cover pocket An excellent text for both building construction and construction engineering students, this book is also an indispensable on-the-job reference for builders, architects, civil engineers, and other construction professionals.

Results of study completed in 1978 examining the Office of the Federal Inspector and the incentive rate of return mechanism as methods of regulating the Alaska Gas pipeline project.

Demands on the construction industry are changing, and it is now virtually essential for environmental management to be considered at all stages of a project. Many construction managers are finding a quantitative approach useful, and this book outlines four quantitative methods which can be applied at different construction stages, and which fit within a comprehensive framework of dynamic Environmental Impact Assessment (EIA). These include: a method to quantitatively evaluate and reduce pollution and hazards levels a method to evaluate the environmental-consciousness of proposed construction plans a method to reduce on-site construction wastes through an incentive reward programme a method to promote C and D waste exchange in the local construction industry. With an experimental case study of the application of these methods, this book delivers a comprehensive review of environmental management issues in construction. With regulatory requirements potentially favouring the quantitative approach, this timely guide ensures that contractors will be able to keep pace with environmental management standards.

Pipeline Planning and Construction Field Manual aims to guide engineers and technicians in the processes of planning, designing, and construction of a pipeline system, as well as to provide the necessary tools for cost estimations, specifications, and field maintenance. The text includes understandable pipeline schematics, tables, and DIY checklists. This source is a collaborative work of a team of experts with over 180 years of combined experience throughout the United States and other countries in pipeline planning and construction. Comprised of 21 chapters, the book walks readers through the steps of pipeline construction and management. The comprehensive guide that this source provides enables engineers and technicians to manage routine auditing of technical work output relative to technical input and established expectations and standards, and to assess and estimate the work, including design integrity and product requirements, from its research to completion. Design, piping, civil, mechanical, petroleum, chemical, project production and project
reservoir engineers, including novices and students, will find this book invaluable for their engineering practices. Back-of-the envelope calculations, Checklists for maintenance operations, Checklists for environmental compliance, Simulations, modeling tools and equipment design, Guide for pump and pumping station placement.

Development of technology in pipeline construction industry nowadays brings alternative method that can be used in installing the underground pipeline which able to reduce the cost usage for a project. Open-cut is a common method used in installing underground pipeline but with surface disruption and brings negative impact to communities, trenchless technology may offer viable alternative with innovative method and cost-effectiveness. Therefore, the research aims to compare the cost effectiveness between trenchless technology and open cut method. The research also provides the criteria to be considered in implementing the trenchless technology. Close-ended survey questionnaire has been used as research methodology while scope of study focusing on east coast construction contractors. There are four respondents that involved in the research. The study proved that trenchless technology is the most cost effective compare to the open-cut method. Comparison has been done based on preconstruction and construction (direct and indirect) cost. The research also identified the criteria to be considered in trenchless technology by highlight on the pipe jacking and horizontal directional drilling. Limitation for the research is the small amount of contractors who specialize in trenchless technology. Future research is needed to consider the other cost factors which may contribute to the project cost.

On 7 February 2011, Vantage Pipeline Canada LLC applied to the National Energy Board (NEB), pursuant to section 52 of the NEB Act, for a Certificate to construct and operate Vantage Pipeline (Pipeline), which will carry liquid ethane from Hess Corporation's natural gas processing plant near Tioga, North Dakota, United States (U.S.) through Saskatchewan to interconnect with the Alberta Ethane Gathering System (AEGS) near Empress, Alberta (AB). This report describes the matters considered by the NEB in reaching a decision on the application. In coming to its findings, the NEB considered all of the evidence on the record in this matter including economic feasibility, Aboriginal matters, land matters, environment and socio-economic matters, engineering matters, public convenience, and necessity.--Includes text from document.

A thoroughly updated edition of the classic guide to project management of construction projects. For more than thirty years, Construction Project Management has been considered the preeminent guide to all aspects of the construction project management process, including the Critical Path Method (CPM) of project scheduling, and much more. Now in its Sixth Edition, it continues to provide a solid foundation of the principles and fundamentals of project management, with a particular emphasis on project planning, demonstrated through an example project, along with new pedagogical elements such as end-of-chapter problems and questions and a full suite of instructor's resources. Also new to this edition is information on the Earned Value Analysis (EVA) system and introductory coverage of Building Information Modeling (BIM) and Lean Construction in the context of project scheduling. Readers will also benefit from building construction examples, which illustrate each of the principles of project management. This information, combined with the case studies provided in the appendix, gives readers access to hands-on project management experience in the context of real-world project management.
problems. Features two integrated example projects—one civil and one commercial—fully developed through the text. Includes end-of-chapter questions and problems. Details BIM in scheduling procedures, Lean Construction, and Earned Value Analysis, EVA. Provides teaching resources, including PowerPoint slides, interactive diagrams, and an Instructor's Manual with solutions for the end-of-chapter questions. Construction Management and Civil Engineering students and professionals alike will find everything they need, to understand and to master construction project management in this classic guide.

Five papers.

On 27 February 2009, Keystone applied to the Board for a CPCN under section 52 of the National Energy Board Act (NEB Act or Act) authorizing Keystone to construct and operate the Keystone XL Pipeline, and for an approval pursuant to Part IV of the NEB Act for the toll methodology and tariff. The Keystone XL Pipeline Project consists of the construction of approximately 529 kilometres (km) of new 914 millimetre outside diameter (nominal pipe size 36 inch) pipeline from Hardisty, Alberta to Monchy, Saskatchewan. The Project will also include related physical works including: eight pump stations, storage tanks and other related works and activities including 32 mainline valves, cathodic protection for the pipeline, and pig launcher and receiver facilities. This report provides an overview of the matters considered by the Board in reaching a decision on the Application. Details of the Board's assessment of issues identified by the Board or by parties to the proceeding are set out in these Reasons. In coming to its findings, the Board considered all of the evidence on the record in this matter including economic feasibility, commercial impact, tolls and tariffs, engineering, land matters, Aboriginal concerns, environment and socio-economic matters, and the public interest.—Includes text from document.