Pipeline Construction Planning Management And Quality

Project management for oil and gas projects comes with a unique set of challenges that include the management of science, technology, and engineering aspects. Underlining the specific issues involved in projects in this field, Project Management for the Oil and Gas Industry: A World System Approach presents step-by-step application of project management techniques. Using the Project Management Body of Knowledge (PMBOK®) framework from the Project Management Institute (PMI) as the platform, the book provides an integrated approach that covers the concepts, tools, and techniques for managing oil and gas projects. The authors discuss specialized tools such as plan, do, check, act (PDCA); define, measure, analyze, improve, control (DMAIC); suppliers, inputs, process, outputs, customers (SIPOC); design, evaluate, justify, integrate (DEJI); quality function deployment (QFD); affinity diagrams; flowcharts; Pareto charts; and histograms. They also discuss the major activities in oil and gas risk assessment, such as feasibility studies, design, transportation, utility, survey works, construction, permanent structure works, mechanical and electrical installations, and maintenance. Strongly advocating a world systems approach to managing oil and gas projects and programs, the book covers quantitative and qualitative techniques. It addresses technical and managerial aspects of projects and illustrates the concepts with case examples of applications of project management tools and techniques to real-life project scenarios that can serve as lessons learned for best practices. An in-depth examination of project management for oil and gas projects, the book is a handbook for professionals in the field, a guidebook for technical consultants, and a resource for students.

Taking a big-picture approach, Piping and Pipeline Engineering: Design, Construction, Maintenance, Integrity, and Repair elucidates the fundamental steps to any successful piping and pipeline engineering project, whether it is routine maintenance or a new multi-million dollar project. The author explores the qualitative details, calculations, and t

A Study on the Effectiveness of Trenchless Technology from Project Management Perspective

Technology Standard of Pipe Rehabilitation

The Application of SPDM, Critical Chain and Portfolio Project Management Principles to the Construction of the 670 Km Urucu/Manaus (Petrobras) Pipeline

Rocky Mountain Natural Gas Pipeline Project, Lincoln County, WY to San Bernardino, CA

A World System Approach

Report to the Congress

The effort to build the Urucu/Manaus Gas Pipeline--an effort implemented by Petrobras within Brazil's Amazon region--has required the project team to overcome numerous severe problems and setbacks. This papers examines a new scheduling plan that the project leaders are developing to help the team perform better, a plan influenced by three project management techniques: success driven project management (SDPM), critical chain, and portfolio project management. In doing so, it overviews the project's goals and the team's reason for developing a new planning system. It then details how the new scheduling plan is enabling the project team to manage the pipeline project's problems and challenges. It identifies the plan's common features (critical chain concept, theory of constraints) and describes the results which the team has accomplished to date. It also explains how the project team implemented the new scheduling plan and a project management information system (PMIS) and how it established a communication process that enables all functional areas to participate in the project's progress, a process which helps the team to prioritize efforts and resources as well as organize the individual projects and strategic goals involved in constructing this massive 670km-long pipeline. It looks at how simulation analysis can help project leaders gauge team performance and manage project resources.

Utilize the most recent developments to combat challenges such as ice mechanics. The perfect companion for engineers wishing to learn state-of-the-art methods or further develop their knowledge of best practice techniques, Arctic Pipeline Planning provides a working knowledge of the technology and techniques for laying pipelines in the coldest regions of the world. Arctic Pipeline Planning provides must-have elements that can be utilized through all phases of arctic pipeline planning and construction. This includes information on how to: Solve challenges in designing arctic pipelines Protect pipelines from everyday threats such as ice gouging and permafrost Maintain safety and communication for construction workers while supporting typical codes and standards Covers such issues as land survey, trenching or above ground, environmental impact of construction Provides on-site problem-solving techniques utilized through all phases of arctic pipeline planning and construction Is packed with easy-to-read and understandable tables and bullet lists

Pipeline Construction Project

Final Environmental Impact Statement

A Guidebook for First Responders during the Initial Phase of a Dangerous Goods/Hazardous Materials Transportation Incident

Ruby Pipeline Project

Grasslands Pipeline Project

Cajon Pipeline Project, San Bernardino County

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

TRB Special Report 281: Transmission Pipelines and Land Use: A Risk-Informed Approach calls upon the U.S. Department of Transportation's Office of Pipeline Safety in the Research and Special Programs Administration to work with stakeholders in developing risk-informed land use guidance for use by policy makers, planners, local officials, and the public.

Rocky Mountain Pipeline Project, Environmental Impact Statement

Weaver's Cove LNG Project, Mill River Pipeline

Pipeline Geohazards

Keystone Oil Pipeline Project, Applicant for Presidential Permit, TransCanada Keystone Pipeline, LP

Pipeline Planning and Construction Field Manual

Sabine Pass LNG and Pipeline Project

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.

This book summarizes the technical method and construction process of underground pipeline testing, cleaning, updating and repairing. It has 20 chapters and an appendix in total. Its content includes: Pipeline rehabilitation construction organization design, Pipeline cleaning, Preparations before construction, Pipeline detection and quality assessment, Pipeline rehabilitation design/method/equipment selection/steps/technical indicators, Pipe Cracking & Bursting method, Sliplining method, Pipe Segments Method, Lining with Inserted hose(improved) method, Cured in place pipe(CIPP), Spray lining, Spiral winding method, Spot repair method, universal construction techniques, construction of general rules, the engineering quality acceptance, construction health, safety, environmental protection and production management, and so on. The appendix is the interpretation for the relevant technical terms in this book. It could help the reader who doesn't have the basic knowledge about pipe rehabilitation to understand this technology easily. This regulation could be the fundamental discipline for pipeline renewal projects in different industries. It could provide the important basis and criterion for design, construction, management, inspection and acceptance of pipeline renewal projects.

Adventure Across Bolivia and Brazil

From Concept to Customer

Construction Project Management

Calhoun LNG Terminal and Pipeline Project

Transmission Pipelines and Land Use

The Management, Planning and Construction of the Trans-Alaska Pipeline System : Report to the Alaska Pipeline Commission by the Commission's Special Counsel

Contains details of progress of preliminary engineering studies of construction of natural gas pipeline across NWT, Yukon and Alaska. Five sections: pipeline route, design concepts and research, schedules and costs, project management, and other.

It seems like yesterday that I took a leap of faith and made the trip to Brazil to work as an environmental consultant on the San Miguel, Bolivia to Cuiab á , Brazil Pipeline project. The project was being criticized in the USA by major NGOs for cutting through the near primary and very remote Chiquitano Forest of Eastern Bolivia. The turnkey contractor, Enron Engineering & Construction Company, had been pressured by its financiers into hiring environmental personnel to assure the implementation, by its subcontractors, of the environmental and social management plan for the project. This was a worthy challenge and suitable adventure, so I jumped at the chance to head south to work on my first major international project. Thus, this semi-fictional account draws on my experience in South America working as the turnkey contractor ' s environmental manager, on this very high-profile pipeline construction project.

Piping and Pipeline Engineering

Arctic Pipeline Planning

Portfolio, Pipeline, and Strategic Project Management

A Practical Approach

Report to the Alaska Pipeline Commission

Pipeline Design & Construction

Oil and gas projects have special characteristics that need a different technique in project management. The development of any country depends on the development of the energy reserve through investing in oil and gas projects through onshore and offshore exploration, drilling, and increasing facility capacities. Therefore, these projects need a sort of management match

with their characteristics, and project management is the main tool to achieving a successful project. Written by a veteran project manager who has specialized in oil and gas projects for years, this book focuses on using practical tools and methods that are widely and successfully used in project management for oil and gas projects. Most engineers study all subjects, but focus on project management in housing projects, administration projects, and commercial buildings or other similar projects. However, oil and gas projects have their own requirements and characteristics in management from the owners, engineering offices, and contractors' side. Not only useful to graduating engineers, new hires, and students, this volume is also an invaluable addition to any veteran project manager's library as a reference or a helpful go-to guide. Also meant to be a refresher for practicing engineers, it covers all of the project management subjects from an industrial point of view specifically for petroleum projects, making it the perfect desktop manual. Not just for project managers and students, this book is helpful to any engineering discipline or staff in sharing or applying the work of a petroleum project and is a must-have for anyone working in this industry.

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.

Project Management for the Oil and Gas Industry

Niagara Import Point Project, Natural Gas Pipeline Facilities Construction and Operation

Fundamental Concepts for Owners, Engineers, Architects, and Builders

The Management, Planning, and Construction of the Trans-Alaska Pipeline System

Alcan Pipeline Project, Alaska Natural Gas Transportation Systems

Final Supplement to Final Environmental Impact Statement : Florida Gas Transmission Company, Docket No. CP74-192

"This book is the retitled second edition of the ASME book "Pipeline Geo-Environmental Design and Geo-hazard Management" (Rizkalla, 2008)."--Introduction.

Focuses on fish and wildlife protection issues in the course of planning, establishing, and conducting monitoring activities. Also explores the rationale behind the decision making process and offers recommendations for improved environmental management in future cases.

Guardian Pipeline Project

North Baja Pipeline Expansion Project

Project Management for Construction

Design, Construction, Maintenance, Integrity, and Repair

Northern Pipeline Project : Alberta to Prudhoe Bay Extension

Millennium Pipeline Project

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-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.

Industrial ecology is a concept that has emerged in response to growing public concern about the impact of industry on the environment. In this framework the natural flow (or circulation) of materials and energy that takes place in biological ecosystems becomes a model for more efficient industrial "metabolism." What industrial ecology is and how it may be applied to corporate environmentalism are the subject of The Industrial Green Game. This volume examines industrial circulation of materials, energy efficiency strategies, "green" accounting, life-cycle analysis, and other approaches for preventing pollution and improving performance. Corporate leaders report firsthand on "green" efforts at Ciba-Geigy, Volvo, Kennecott, and Norsk Hydro. And an update is provided on the award-winning industrial symbiosis project in Kalundborg, Denmark. The Industrial Green Game looks at issues of special concern to business, such as measuring and shaping public perceptions and marketing "green" products to consumers. It offers discussions of the appropriate roles of government and private business.

Zachary-Fort Lauderdale Pipeline Construction and Conversion Project

Pantanal Pipeline

A Risk-Informed Approach -- Special Report 281
Project Management Progress Report
Terry F. Lenzner
Gulfstream Pipeline Project, Gulfstream Natural Gas System, L.L.C. Docket No. CP00-6-000
Examines the Trans-Alaska Oil Pipeline project in terms of project budget estimates, management, and labor and government involvement in order to minimize costs and improve effectiveness of future large-scale arctic construction projects.
This book offers a comprehensive perspective of project management, covering the concept-to-customer cycle of complex strategic projects. It provides readers with the explanations of portfolio and pipeline management techniques, project planning tools, risk management tools, contingency planning, trade-off analyses, and leadership techniques.
Design, Construction, and Equipment
The Industrial Green Game
Planning, Design, Construction and Operations
Emergency Response Guidebook
Implications for Environmental Design and Management
Project Management in the Oil and Gas Industry
Does the identification number 60 indicate a toxic substance or a flammable solid, in the molten state at an elevated temperature? Does the identification number 1035 indicate ethane or butane? What is the difference between natural gas transmission pipelines and natural gas distribution pipelines? If you came upon an overturned truck on the highway that was leaking, would you be able to identify if it was hazardous and know what steps to take? Questions like these and more are answered in the Emergency Response Guidebook. Learn how to identify symbols for and vehicles carrying toxic, flammable, explosive, radioactive, or otherwise harmful substances and how to respond once an incident involving those substances has been identified. Always be prepared in situations that are unfamiliar and dangerous and know how to rectify them. Keeping this guide around at all times will ensure that, if you were to come upon a transportation situation involving hazardous substances or dangerous goods, you will be able to help keep others and yourself out of danger. With color-coded pages for quick and easy reference, this is the official manual used by first responders in the United States and Canada for transportation incidents involving dangerous goods or hazardous materials.
This third edition of this highly successful volume is fully updated and includes new information on buoyancy control, Trenchless Crossing methods, as well as on Compressor Fuel Calculations and Optimization, Hydrotesting and LPG Pipelining. This book offers straightforward, practical techniques for pipeline design and construction, making it an ideal professional reference, training tool, or comprehensive text. The authors present the various elements that make up a single-phase liquid and gas pipeline system, including how to design, construct, commission, and assess pipelines and related facilities. They discuss gas and liquid transmission, compression, pumps, protection and integrity, procurement services, and the management of pipeline projects. More complex specialty fluids are also covered, including CO2, H2, slurry and multi-products. (Publisher).
Lessons Learned from Constructing the Trans-Alaska Oil Pipeline
Recreation and Wilderness, Technical Report
Fish and Wildlife Protection in the Planning and Construction of the Trans-Alaska Oil Pipeline
Environmental Impact Statement
Bridger-Teton National Forest (N.F.), Lower Valley Energy Natural Gas Pipeline Project