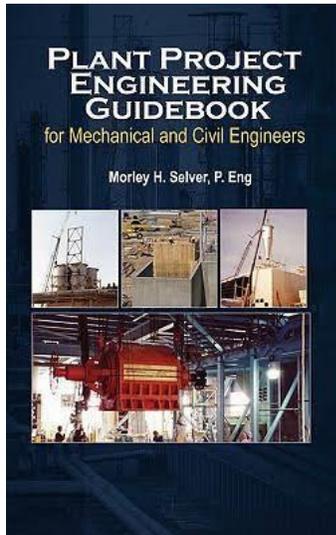


## PM WORLD BOOK REVIEW



Book Title: ***Plant Project Engineering Guidebook for Mechanical and Civil Engineers***

Author: Morley H. Selver, P. Eng

Publisher: Multi-Media Publications Inc.

List Price: \$69.95

Format: Hard Cover, 409 pages

Publication Date: 2002

ISBN: 978-1-55489-099-6

Reviewer: **Dylan Harms**

Review Date: November 2021

### Introduction

The **Multi-Media** book titled ***Plant Project Engineering Guidebook for Mechanical and Civil Engineers*** dives into a detailed overview for a plant project engineer through detailed real-world examples, guidelines, checklists, outlines, and provides a baseline written from the perspective of a plant project engineer based on typical examples.

### Overview of Book's Structure

- **Chapter 1 – Introduction** sets the stage of the design layout of the book. The aim is for the project engineer to understand the 6 key points throughout a project life-cycle; What is to be done/Why it is being done/When it will be done/How it will be done /Where it will be done/Who will do it.
- **Chapter 2 – Project Authorization** breaks down into line-item detail of the explanation of each element and importance of the project authorization list. This is exemplified with past case studies, aiming to compile best practices within the structure of the check list.

- **Chapter 3 – Engineering Control and Design** focuses on importance of outlining a filing system with labeling example for engineering files and drawings throughout multiple stages to mitigate risk or mistakes.
- **Chapter 4 – Procurement** goes in detail of RFQ (request for quotation) process and provides guidelines that span over a large variety of best practice information.
- **Chapter 5 – Tender Form and Instructions to Bidders** presents outline of a lump sum contract. This tender document outlines instruction to bidders, scope, specifications, and contractual agreements.
- **Chapter 6 – Scope of Work, Drawings, and Specifications** details five sections of information one would provide to contractor(s) to create and manage scope.
- **Chapter 7 – Agreement and General Conditions of Contract** focuses on which contract document(s) will control and drive the project. This outlines the general conditions that shall be included and referenced within the entire document.
- **Chapter 8 – Bid Meetings, Bid Evaluation, Purchase Orders, and Contracts** looks into what is incorporated within bid meetings, why you should hold an on-site visit for all contractors, and gives an overview of what is to be incorporated throughout the meetings.
- **Chapter 9 – Construction Management** explains the importance of the construction management team, and why/how they should be involved in the design, procurement and construction phases throughout the entire project life cycle.
- **Chapter 10 – Commissioning Procedures** gives a commissioning procedure outline that is modified to utilize for small plant projects. The entirety of chapters 10-13 together completes the commissioning procedure.
- **Chapter 11 – Mechanical Commissioning Procedures** continues the commissioning procedure regards to the mechanical equipment. A system inspection and checklist is detailed herein.
- **Chapter 12 – Electrical Commissioning Procedures** follows chapter 11 for electrical commissioning procedure, inspections, and tests.

- **Chapter 13 – Instrumentation Commissioning Procedures** completes the commissioning procedure with regard to instrumentation. Afterwards, the system is ready for startup and turned over to operations.

## Highlights

The book titled ***Plant Project Engineering Guidebook for Mechanical and Civil Engineers*** provides the tools and roadmap from perspective of a seasoned plant project engineer. Industrial plants are training grounds for young project engineers and usually are hired to fill an immediate need for help. This book aims to give a strong baseline of training for the intention of understanding, rather than just learning.

### Highlights: What I liked!

***Plant Project Engineering Guidebook for Mechanical and Civil Engineers*** provides a very detailed description of duties for a plant project engineer. The book encompasses most likely case scenarios and gives common best practices to be wary of which will not only mitigate risk, but time spent and resources allocated.

The chapter structure is broken down to be reference-able in regards to which part of a project the plant project engineer is facing or has question(s) on.

### Who might benefit from the Book?

This book is very much catered to a plant project engineer overall job description in an industrial field. The book would best benefit new plant project engineers, but would be a handy tool belt/reference item for any experience level of plant engineer.

## Conclusion

Overall, I found ***Plant Project Engineering Guidebook for Mechanical and Civil Engineers*** to be a straight-forward read. It provides great reference materials for a plant project engineer dealing with medium to large scale projects. I would recommend this book to any project engineer as an aid for successful organizational project management.

For more about this book, go to <https://www.goodreads.com/book/show/9900066-plant-project-engineering-guidebook-for-mechanical-and-civilplant-projec>

*Editor's note: If you are an author or publisher of a project management-related book, and would like a book reviewed, please contact [Editor@peworldjournal.com](mailto:Editor@peworldjournal.com).*

## About the Reviewer



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**Dylan Harms** is a Project Manager with a demonstrated history of working in the public safety and utilities industry. Skilled in Engineering, HVAC, Sales, Team Building, and Public Speaking, Dylan is a strong self-starting engineering professional with a Bachelor's degree in Mechanical Engineering from The University of Texas Rio Grande Valley. Dylan is currently moving on the path towards a PMP certification. He can be contacted at [dylan\\_harms@hotmail.com](mailto:dylan_harms@hotmail.com)