

# OPTIMIZE METHOD OF ENGINEERING EXECUTION PLAN THROUGH MULTIPLE DESIGN CENTERS

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*Abstract:- This paper proposes a method of engineering execution plan in Project Execution in engineering industries is a real world problem faced by industries. Increasing number of projects, high cost and stiff competition have posed a challenge to the EPC contractors for efficient allocation of project execution resource. Project management is not a task to be undertaken lightly. Quite apart from the time needed to undertake a project there can be many problems that are unique in world. A crucial decision that use multiple design centers worldwide for futures .Today's global, fast-track projects require engineering, procurement, and construction (EPC) contractors to successfully manage and perform projects involving concurrent participation of multiple design centers worldwide, while still keeping a handle on project schedule and costs. They also have the need to preserve their "best practice" design information for re use on the future projects, to increase productivity and preserve their corporate knowledge. The results of the engineering execution plan have demonstrated the effectiveness of the proposed method to improve the optimize method of engineering execution to use multiple design centers.*

*Key words: Engineering, procurement, and construction (EPC) contractors, Engineering execution plan (EEP).*

## INTRODUCTION

Project execution is increasing day by day. In developed countries, Project execution has been the fastest growing in energy market for the last decade. Many technologies are arising to develop execution from various sources, which in turn produces a very high method using the advanced technologies. One of the methods to develop project execution from a source is "Use multiple design centers worldwide". It is one of the advanced techniques to develop project execution. This technique involves oil and gas project execution which is an advanced method to optimize project execution period.

## PROPOSED MODEL

"Use multiple design centers worldwide" is our proposed model which uses an advanced technique such as a study of the system analysis and design of oil and gas project executed through optimize method of engineering execution plan.

Project management principles are the foundation on which the profession of project management is built. Conformance to these principles is a prerequisite for successful project management.

Project management is the discipline of planning, organizing, securing, managing, leading, and controlling resources to achieve specific goals. A project is a temporary endeavor with a defined beginning and end (usually time-constrained and often constrained by funding or deliverables).

[1] Undertaken to meet unique goals and objectives.

[2] Typically to bring about beneficial change or added value. The temporary nature of projects stands in contrast with business as usual (or operations).

[3] Which are repetitive, permanent, or semi-permanent functional activities to produce products or services? In practice, the management of these two systems is often quite different, and as such requires the development of distinct technical skills and management

## KEY PHASE OF THE ENGINEERING EXECUTION PLAN

As we all know any execution plan of latest technology cannot be activated without the source of engineering execution plan. So, in this fast moving world be deliberately need a proper engineering execution plan which will be apart for a particular requirement.

Meanwhile, there's a traditional approach to managing typical projects. The so-called "traditional project management approach" includes five key phases of the development and implementation process. These phases are:

Initiation  
Planning  
Execution  
Control  
Closure

The traditional approach entails achieving the flexibility in planning and reaching deadlines and provides the benefits of control and effective team building. The following core processes determine success of the project methodology:

Decision Making  
Performance Measuring

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### **THE ENGINEERING EXECUTION PLAN LIFE CYCLE**

The graphic on the right shows the typical phase is completed. The graphic on the right shows the typical phases of the process project life cycle with percent completed as function of total contract time through use multiple design organization in world wide.

There are seven phases in the results and interpretations:

1. Project Initiation
2. Scope definition & conceptual development
3. Preliminary engineering / construction planning
4. Detailed engineering / site initiation
5. Construction / Final Design engineering support for construction
6. Checkout / Start-up
7. Closeout

### **SIMULATION RESULTS**

Considering engineering execution plan that use multiple design organization in worldwide is basically to reduce the design risk and improve multiple action in engineering.

Based on the new engineering execution plan lifecycle management in EPC project execution in oil and gas industries project, the EPC expects to receive the following benefits:

Increased revenue through improved design competitiveness and more wins; the ability to support more concurrent projects through enhanced productivity; the ability to better leverage the engineering resource pool; and improvements in operations and collaborations at the global level

Increased profitability through reduced engineering hours and lower costs for engineering resources, materials, warranties and manufacturing

Improved product quality based on consistent engineering and design standards, reduced manufacturing variability and better data accuracy

Enhanced client satisfaction has due to more timely completions, lower project costs, greater responsiveness to customer needs, and products that are more reliable and consistent.

### **CONCLUSION**

This paper has presented a method for implementing engineering execution plan use worldwide network on multiple design centers. This particular application method has been implemented using engineering execution plan. This method, however, can be easily implemented using multiple

design tools which can use to data sharing and transfer it quickly and easily. Worldwide Design Centers will assist customers in generating the most appropriate package for their specific device.

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