





AACE® International Recommended Practice No. 45R-08

SCHEDULING CLAIMS PROJECTION METHODS

TCM Framework: 6.4 – Forensic Pelermann, Assessment
7.2 – Schedule Planning and Descriptment
8.1 – Project Control Plan Implementation

Rev une 1, 2009

Note: As AACE International Recommended by ces evolve over time, please refer to www.aacei.org for the latest revisions.

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Disclaimer: The opinions expressed by the authors and contributors to this recommended practice are their own and do not necessarily reflect those of their employers, unless otherwise stated.

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SCHEDULING CLAIMS PROTECTION METHODS

TCM Framework: 6.4 - Forensic Performance Assessment

7.2 – Schedule Planning and Development

8.1 – Project Control Plan Implementation



June 1, 2009

INTRODUCTION

Purpose

This recommended practice (RP) is intended to serve as a guideline, not establish a standard for schedule claims protection. The RP is intended to provide the scheduling practitioner with an overview of topics related to schedule delays as well as the various schedule practices and procedures that should be considered when developing and managing the project schedule. This RP will explain items to consider when creating and maintaining a critical path method (CPM) schedule in order to be prepared for potential delay claims. This RP begins by describing schedule delay terminology and outlining potential causes and required actions related to schedule delays. The sections following are related to some of the planning considerations recommended when developing a project schedule, plus good practices related to the management and control of the schedule throughout the project.

RECOMMENDED PRACTICE

Projects are supposed to be completed on time. Despite be of efforts, delay situations arise that often result in a condition not anticipated in the original cont. Sc ule delay claims are the acceptable processes for requesting adjustments for impacts to the project lule. empt resolution of these delay issues are key to continued harmonious execution of the project. By it pleasnting the appropriate processes and procedures the scherule related disputes and claims. The accuracy and scheduler can help to facilitate the early has on o completeness of the project schedule is import e early and successful resolution of the schedule delay nt u perly de loped, accurately maintained and supported by the project claim issues. When the schedule is documentation it is a vital element fully resolving delay claims. The project CPM schedule is a multifunctioning management tool that serv veral purposes:

- For project planning and multipation of the intent of that project plan
- To monitor project sand alert the project team to deviations from the plan
- To evaluate project time impacts and help focus on the alternatives for timely completion
- To forecast the time required to complete the project and to alert the project to the possible need to accelerate or develop schedule recovery plans
- To provide a historic time record of what happened on the project

There are two groups of schedule delay topics that need to be considered by the planning and scheduling professional. In the first group are those topics that will help the scheduler to understand the potential issues related to schedule delays: Why is schedule claims protection required? What are the causes of project delays? The definitions of important terms related to schedule delay are included in that group of topics. Secondly, are the schedule protection processes and prevention measures: How should the CPM schedule be designed (modeled) and developed? How will the activities be structured and what will be the level of detail for monitoring and progress reporting? What processes should be considered for schedule management and control during the various phases of the project? Do any of these scheduling considerations change if alternate project delivery methods are employed?

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Schedule Delay Claims

In the introduction to their 5th edition book *CPM in Construction Management*^[28] authors Jim O'Brien and Fred Plotnick unequivocally state "There are NO WINNERS in delay." Both the project owner and the contractors suffer when there is a project delay: the loss of productive use of the project facility or product; increased finance costs both direct and indirectly; extended staffing costs and contractor overheads; the list goes on. If the project is delayed to the stage of dispute resolution, there are the costs for attorneys, claims consultants, depositions, discovery, mediation, arbitration, and litigation. Very rarely will anyone recover the full costs for those time impacts and none of these dispute resolution costs will bring back the project time that was lost. Therefore, professional schedulers need to be more effective in developing and using the CPM schedule as a tool not only to get the project completed on time, but also to communicate to all of the project stakeholders the delay issues.

The scheduler should consider the potential for claims when developing and maintaining the project schedule. By taking appropriate actions the scheduler can help to minimize the potential of the project incurring unanticipated schedule related claims. During schedule development as well as by diligently performing specific actions during the project execution phase, the scheduler enables the project to provide an as-built schedule that can be validated to the project records to be an effective tool to facilitate the preparation for and/or defense of a schedule related claim.

What Should the Scheduler Know About Schedule Delays?

It is important for schedulers to understand the potential control it issues that are related to delay issues when developing, managing, and controlling the project schedule. It is not exough to just create a "good working schedule", the scheduler should also consider potential clams when building and maintaining the project schedule. Schedulers must understand the important terms and definitions in relation to the contract: excusable; compensable; concurrent or serial; non-excusable; care actice, and liquidated damages, as well as differentiate between such terms as "delay" and "disruption which are in synonymous.

The scheduler should read and fully understand to project contract. The contract is the "rule book" for the project and contains a variety of time (schedule) noted topos in the contract documents: "no damage for delay" clauses; ownership of schedule float; treatment of contract delays; client notification requirements; definitions and categories of delays; schedule: "the contract there are also key *legal elements* to consider related to the schedule:

- Risk allocation (sharing instruction contracts)
- Responsibly for mitigation of delay, regardless of source
- Format for dispute resolution
- Timely written notice
- Project (schedule) documentation

Causes of Schedule Delays

Schedulers need to know the probable causes of construction delays and extra work. There are only a handful of major delay categories. However, dependent on the type of contract agreement a myriad of delay issues are possible from these few sources: owner caused delays and changes; claims relating to the design professional; contractor caused delays and changes; differing site conditions; and *force majeure* events.

The owner is defined as the public or private entity ultimately responsible for the proper execution of the project. Examples of owner caused delays include: