ARC 226 Chapter 14

Updating the Schedule

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INTRODUCTION

- During the course of the project it is important to keep the schedule updated
 - + List actual start and finish dates
 - + % complete can be listed
 - x May also be number of days remaining
 - + Actual number of resources used
 - × Money spent, work hours, equipment hours utilized, etc.
- * The computer is essential for updates
 - + Each change requires a new forward and backward pass

TARGET OR BASELINE SCHEDULE

- The PM must create a target or baseline schedule
 - + Serves as the comparison for subsequent schedules
- * When performance is measured, performance improves
 - + With the target schedule the manager has a tool to measure the performance of he crews, subs, vendors

HISTORICAL INFORMATION

- * Before updating, rename the new schedule
 - + Save the old schedule for records and historical info
 - + Use numeric characters at the end of the name to allow easy tracking of updates
- Previous schedules need to saved and backedup on a separate storage device
 - + Potential legal matters
 - + Possibly back up to a network server
 - × Consider a separate off-site storage

MONTHLY UPDATES

- * May be required by the project specifications
- Daily logs give information about progress
 - + This is critical information and needs to be updated in a timely manner
- * The progress information must be collected in a usable format
 - + You must be able to read the reports
- * If the schedule is updated only monthly it is not being utilized as effectively as it should be

ACTIVITY TURNAROUND REPORT

- To simplify the monthly update consider an activity turnaround report
- Consists of a monthly report with the activities for the month along with the prospective start and finish dates
 - + Leave blank columns for the field manager to fill in the actual start and finish dates
 - × Also include a column for percent complete
 - + Much easier than relying on the daily log for start and finish information

WEEKLY UPDATES

- * Take less time than monthly updates
 - + More likely to get done and serve as a useful management tool for the project
- The management team will never be more than a week away from knowing about a potential schedule problem
- Still take considerable time, increasing the likelihood of being abandoned

DAILY UPDATES

- **×** Consist of:
 - + Opening the job file on your computer
 - + Input "old activities that finished today"
 - + Input "new activities that started today"
 - + Have the computer calculate the remainder of the schedule
 - × Check that the project completion date is still on track
- May take only a few minutes to complete
- * More accurate
 - + Give the most timely information available
 - × % complete and days remaining can be reserved for the monthly update
 - + May also post the schedule to the web for sub info

USING A PDA TO UPDATE THE SCHEDULE

- * A PDA can be used to update the project
 - + Field manager can input the start and finish dates
 - × Synchronized with the desktop computer
- * Helps eliminate extra paperwork
- * Available with most software

REMOTE CAMERAS

- * Allows for gathering information without traveling to the jobsite
- * Remote cameras broadcast to your computer
- Can give a general idea about the progress for a particular area
 - + Owners often like the remote camera

% COMPLETE VS. DAYS REMAINING

- Should progress be determined by days remaining or % complete?
 - + Often a company preference
- * % complete usually gives a better indication of the actual progress
 - + The activity may have 3 out of 10 days remaining, but only be 50% complete
 - × Is the activity behind schedule?
 - * Learning curve
 - * Final units may take longer to install

DETERMINING PERCENT COMPLETE

- * Should % complete be base on
 - + Units in place
 - + Budget expended
 - + Time expended
 - + Labor hours or other key resources
- * If 50% of the units are installed, is the activity 50% complete?
- * The method used may depend on the company, the activity, and the circumstances of the project

PERCENT OF QUANTITIES IN PLACE

- * Probably the most commonly used method
- * % complete =
 - + quantity installed/quantity planned * 100
- * Example
 - + 3000 ft² completed / 12,000² planned * 100 = 25% complete

PERCENT OF ACTIVITY BUDGET EXPENDED

- * Actual costs at the time vs. total planned costs
- Percent complete = Actual cost / Planned cost * 100
- * Example
 - + \$2000 to date / \$6000 planned * 100 = 33% complete

PERCENT OF ACTIVITY TIME EXPENDED

- * Actual time used on the activity to date vs the amount of time planned for the activity
- * % complete = actual duration / planned duration * 100
- * Example
 - + 3 days / 10 days total duration * 100 = 30% complete

PERCENT OF LABOR HOURS USED

- * Actual labor hours consumed vs planned labor hours
- * % complete = actual hours/planned hours * 100
- * Example
 - + 50 hours used / 150 planned * 100 = 30% complete

WHICH METHOD TO USE?

- Each method gives a percentage complete but this may not always indicate whether the activity (or project) is ahead or behind
- * The PM must analyze the percentages and specifics of the project to determine if it is ahead or behind
- * It is often a good idea to use several methods to determine % complete and compare
 - + Budget, time, units, etc.

DETERMINING QUANTITIES IN PLACE

- * How is data collected to determine % complete?
- The PM is not always able to visit the site to determine % complete
 - + Also has implications regarding pay draws
- * Methods for collecting information
 - + Superintendent daily logs
 - + Turnaround reports
 - × Field managers fill in data about the status of activities
- The field manager needs to be trained in the appropriate method for collecting the data

EVALUATING THE PROJECT

- * Is the project on schedule with respect to time?
- Is the project on track with respect to budget?
- * Is quality ok?
- Safety?
- Does the original plan for the project need to be changed or revised?
 - + Do new activities need to be planned?
- These questions should be considered on a regular basis
 - + It is extremely important to have timely information

CONCLUSION

- Updating the schedule is key to evaluating the project
 - + Do any adjustments need to be made?
- * How is the project progressing compared to what was planned?
- * If the project is in trouble the management teams needs to adjust before the project nears completion