BOOKKEEPING PROCEDURES FOR THE APPLICATION OF THE CONCEPT OF PRE-ALLOCATION OF TOTAL FLOAT

Ву

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Nikhil Ambani

Abstract

With the increasing complexity in construction projects, monitoring project schedule and managing projects effectively is becoming increasingly important. Most projects being deadline oriented, timely completion becomes a must. Like every industry, the construction industry too lays a lot of emphasis on timely completion which makes it necessary to monitor the project schedule very closely. A schedule overrun is never predicted at the start of the project but during the course of the project, even the slightest change can result in delays.

As per the current scheduling practices, float is considered free. It is an expiring resource and hence the party to the use the float first owns the float. The concept endorsed by the court for analyzing delay claims is the proximate cause concept. As per this concept, the party which is the immediate cause to a particular delay is held responsible for that delay irrespective of what has happened before in the project. Due the ambiguous nature of its interpretation, the present concept on float management has now become one the primary reasons for disputes amongst the participating parties. Parties in contract are always trying to appropriate float to suit their interests. This is why total float management has gained this level of importance in today's industry.

To handle this issue of total float management more efficiently, Dr. Prateapusanond (2003) proposes a new concept of total float management as an effort towards a more fair and equitable system. This concept respects the dynamic nature of construction projects and recognizes float to be an asset for both parties. The new concept proposes to allocate float in the ratio 50:50 between the parties at the start of the project. This pre-allocated float owned by each party is called the Allowable Total Float (ATF). The implementation of this concept ensures that the parties are now aware that

consumption of float in a way that it affects critical activities will expose them potential damages.

This concept is an effort towards a more fair and equitable system for total float management. It appears impressive on paper but its practicality and applicability remains a major concern. This research is aimed at testing the practicality of the proposed concept of pre-allocation of total float. It introduces bookkeeping procedures that will facilitate the application of the concept of Pre-allocation of total float. These procedures have been developed and tested on certain case studies to make sure that they are robust. Once their ability to handle scheduling issues is determined, the bookkeeping procedure along with the concept of pre-allocation of total float is applied to a real construction project. This research presents an in depth analysis of the nature of the proposed concept of pre-allocation of total float, the scheduling issues which this concept does not address to, and certain assumptions which could be used in conjunction with the present concept to make it robust in nature.

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Go Hokies!!!

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Chapter 1

Introduction

Construction projects are becoming increasingly complex and cost intensive, necessitating the need to monitor the project schedule and cost very closely. Construction projects are initiated in complex and dynamic environments resulting in circumstances of high uncertainty and risk, which are compounded by demanding time constraints (Mulholland and Christian 1999). One of the most important issues in planning and executing any construction project is scheduling. The more complex projects are, greater is the need to monitor the project closely since even a slightest miscalculation during the planning phase could result in a major change in the project completion and project cost.

Many projects are deadline oriented and hence timely completion is essential. In the construction sector where conditions are always non-predictive, failure to meet deadlines usually results in either financial penalties or liquidated damages to one or more of the participating parties. On many projects, a schedule overrun does not seem probable at the beginning of the project. Schedule targets are sometimes missed sometimes because of unforeseen events, which even experienced construction managers, could not have anticipated (Mulholland and Christian 1999). However, schedule target dates are more often missed because of events, such as design problems and trade disputes, that were not wholly unforeseeable but their likelihood and effects are difficult to predict with any precision because no two-construction projects are the same (Mulholland and Christian 1999).

Selecting construction methods, scheduling activities and planning the use of the site over time are key to constructing a project efficiently (Zouein and Tommelein 2001). Miscalculation in any of these areas could ultimately also lead to project delays. Scheduling problems may occur whenever there is a choice as to the order in which a number of tasks can be performed using a limited number of resources (Karumanasseri and AbouRizk 2002). Another area, which adds to the present complications in a

construction project, is the number of parties involved. Most general contractors sublet a large percentage of their work to subcontractors for reasons including the need of specialized equipment and expertise, shortage in resources and limitation in finances (Elazouni and Metwally 2000).

Most of these situations cannot be avoided and have to be dealt with, as and when the need arises. However, one area that parties to the contract unquestionably need to concentrate is monitoring the project schedule closely. Scheduling of construction activities becomes the core planning of any construction project. Scheduling becomes necessary, not only for smooth operation, but also for maintaining the quality of construction in case of projects, that are deadline oriented. Scheduling in general involves the following two steps:

- 1. Identification of all major activities/tasks from start to finish
- 2. Sequential arrangement of all identified activities/tasks

These two steps help in developing the order of activities and, define the predecessors and successors for each activity.

Owners most always want the project to be completed as soon as possible and hence, failure to meet deadlines usually results in disputes between the participating parties, which more often than not result in financial penalties. Owners and contractors are generally at the risk of incurring additional and substantial costs when construction projects are finished beyond the contractual completion dates (Prateapusanond 2003; Schumacher 1996; Householder and Rutland 1990).

Any delay in the project whether due to natural causes or otherwise is frequently the primary cause of disputes between the participating parties because it is often difficult to determine the party responsible. Thus, it is important to determine the identity of the party responsible when delay occurs. Each day of delay may result in greater monetary losses, to one or more of the contracting parties. These conflicts are sorted out by negotiation, alternative dispute resolution proceedings, or by courts and usually result in further delays and loss of revenue to all parties concerned. Negotiating a fair and timely damage settlement is beneficial to all parties (Bubshait and Cunningham 1998) but, due to many sources and causes of construction delays, it is often difficult to analyze the ultimate liability in delay claims (Kraiem and Diekmann 1987). The construction industry

has a difficult time prospectively identifying with accuracy either the scope or magnitude of change-caused disruption at the activity level (Finke 1998).

Over the years, the industry has seen the use many scheduling practices to analyze the cause of these delays, to allocate responsibility, and thereby allocate responsibility. The Critical Path Method (CPM) is one of the techniques used in delay analysis. The uses of Critical Path Management concepts are valuable in analyzing delays in a claim context. This is primarily because CPM can help to identify the period of the delay event and determine the cause and effect of the delay, as well as pinpoint the responsible parties. (Householder and Rutland 1990; Wickwire et al 1991; Capuano Jr. 1995; Prateapusanond 2003)

1.1 The Critical Path Method (CPM)

The Critical Path Method (CPM) has been widely used as a project management tool to improve scheduling and project administration tasks, supporting project managers to facilitate project completion on time and on budget (Kim 2003). The CPM generates useful information about the project, such as shortest project duration, the critical path(s), and the Total Float (TF) and Free Float (FF) for each activity (Kim 2003). The availability of this information helps project manager's plan and control the project more efficiently. CPM facilitates management by exception (Kim 2003), which means that the managers know which activities are critical and near critical. This information helps them realize which activities need more management attention at that stage of the project. This feature is the one of the principal advantage of the critical path method.

In CPM schedules, activities are scheduled based on their start finish times and their sequence of operations. The main step in scheduling a project using CPM is to define the project and to develop a network by identifying all of the project's significant activities or tasks and the relationships between them. On identifying these relationships, each activity is assigned a cost and resource estimate. Based on these estimates, the activity durations are calculated. The longest time path in the network is computed and this path is known as the critical path.

Using these network characteristics, other information such as the total float of each activity can be calculated. The total float for a particular activity can be defined as the difference between the Late Start date/time and the Early Start date/time or the difference between the Late Finish date/time and the Early Finish date/time for that particular activity. This total float allows for the delays to the non-critical activities in the project. Ponce de Leon (1986) identifies the common scheduling interpretation of "total float" as the number of days an activity may be extended or delayed without delaying the completion date shown in the schedule. Total float can also be identified as a by-product of the critical-path-method calculation (de la Garza et al 1991). It represents the length of time that an activity's finish date can be delayed without affecting the completion date of the project (de la Garza et al 1991). Using up this total float does not delay the project. Therefore, float usage becomes a key issue in the timely completion of the project.

1.2 The Current Scenario

The concept of total float allocation and ownership employed in construction scheduling over many years has become a major cause for concern, which can result in the potential for delay claims and litigation (Prateapusanond 2003). Disputes over the existence of total float and its ownership are at the core of most delay claims (De La Garza et al 1991). Under current scheduling practices, float time is considered "free" and does not belong to any party in the construction process (Wickwire et al 1991; Prateapusanond 2003). This concept, also endorsed by the courts, treats float as an expiring resource and hence the party to use the float first "owns" the float.

The nature of the present concept, due to its ambiguous nature, has made float ownership a key area of dispute between participating parties. Today's construction project is a complex effort requiring the support of many design professionals along with a variety of construction talent. The rapid increase in the number of construction disputes in the past few years is startling and would lead one to believe that a construction claim is an inevitable ending for every major project (Wilson 1983). After looking at the increasing numbers of disputes between parties these days, the present concept seems biased towards the participating parties instead of the project; though some may not even

agree with this conclusion. The participating parties more often than not are always trying to appropriate float for their respective benefits. This nature of the present concept suggests the need for an improved concept to allocate float ownership between the participating parties to eliminate or at least minimize the possibility of potential disputes and litigation in the future. The increasing number of court cases in the recent past necessitates the need to come up with an entirely new set of scheduling specifications for float ownership in the contract documents. With every passing day, the need of developing an entirely new concept for analyzing delays and allocating float ownership is becoming stronger.

1.3 The Concept of "Pre-Allocation of Total Float" (Prateapusanond 2003)

Due to the ambiguous nature of its interpretation, float ownership has become one of the key areas of dispute between the participating parties. As per the current scheduling practices, float is an expiring resource and the party to use the float first owns the float. Prateapusanond (2003) proposes a new concept for total float management as an effort towards a more fair and equitable system for float allocation. This concept respects the dynamic nature of construction projects and hence recognizes total float to be an asset for both parties and hence for the project as a whole. Hence, the risk of unforeseen circumstances is shared equally between the participating parties.

The ambiguous nature of float ownership can be clarified by improving contract language with regard to scheduling specifications in the area of total float management (Prateapusanond 2003). The overall purpose of such research was to introduce a comprehensive practice of float pre-allocation and management terms for the application of scheduling specifications in the CPM based construction contract (Prateapusanond 2003).

The new concept proposes to pre-allocate a set amount of total float to participating parties on the same non-critical path. This pre-allocated float owned by each party before the start of the project is the Allowable Total Float (ATF). Allocating the

respective ATF values to each party ensures that the parties are now aware that any consumption of float in a way that affects the critical activities and hence delays project completion will expose them to potential damages.

For the sake of equity, the study proposes allocating the float equally (i.e. 50:50) between the participating parties. For the successful application of the concept, Prateapusanond (2003) also recommends the application of the "No Damage for Non-Critical Delay" clause, which would ensure that the parties are not exposed to damages until the delay is critical and affects project completion.

1.3.1 The Delphi Survey

As an effort to validate the proposed concept, Prateapusanond (2003) conducted a survey seeking opinions from industry professionals on the proposed concept. Some of the key findings of this survey are as given below:

- Total Float ownership and management has become a major source of conflict between participating parties whenever a delay occurs
- 50% of the panel members do not believe in the efficiency and feasibility of the present concept
- The proposed concept:
 - can significantly increase awareness that float consumption can play a role in creating potential project delays
 - o can significantly resolve the total float ownership issue
 - o is not costly to implement

There was a little concern amongst the panel members on the ease of implementation of the proposed concept. The major rationale of those who disagree with the proposed concept is due to the dynamic nature and complexity of construction schedules (Prateapusanond 2003).

1.3.1.1 Suggestions and Recommendations:

There were a number of observations and suggestions made by the panel members as listed below:

- The proposed concept is much fairer to the parties of a contract
- Some of the panel members believe the concept is not workable and will not respect the dynamic nature of construction schedules
- Scheduling issues and contractors' "scheduling games" should be addressed concurrently but separately with the proposed concept
- Some suggest the methodology should address the additional total float issues arising from the owners' change orders and contractors' actions
- The implementation of this concept would lead to higher bids to cover for contingencies
- It will be difficult to compute total float on monthly basis
- The acceptance of the proposed concept would require complete rethinking of an already accepted float ownership principle
- The proposed concept should be tried on a real project
- The 50:50 ratio should be reconsidered; higher float for the contractor will ensure contractor ingenuity

Overall, the results showed that most of the panel members agree with the proposed concept and believe the concept of total float pre-allocation would significantly increase the awareness of total float consumption by the two parties and resolve the total float ownership issue (Prateapusanond 2003)

1.3.2 Areas of Future Research as suggested by Prateapusanond (2003)

Although the concept has been shown to increase the awareness of total float utilization, one cannot know whether the concept is practical (Prateapusanond 2003). The author recommends the following areas for future research:

- Apply the concept on a real project to see if it is capable of handling scheduling problems which occur during construction
- Develop a criteria to determine the amount of float assigned to each party
- Develop contract clauses for scheduling changes which occur during a project
- Create a computer program or enhance a present scheduling program to keep track of the amount of float used and the amount remaining for each party during the course of the project

Chapter 2

Research Objectives & Scope

Over the past few years, the construction industry has seen a rapid increase in the number of disputes. The proposed concept of "Pre-Allocation of Total Float" is an effort towards a more fair and equitable system of float allocation. As discussed in Chapter 1, the concept is impressive on paper, but its practicality and applicability still remains a major concern amongst construction professionals. This research is aimed at testing the practicality of this concept and to see whether the concept is applicable to complex construction projects.

2.1 Research Objective

The proposed concept of "Pre-Allocation of Total Float" is appealing on paper and appears to solve the present problem of total float management, but the biggest challenge is to determine how to apply this concept on a real construction project effectively. A real project will involve a lot more complexities than the ones on which the concept has been based upon, and hence this would help us determine if this concept is applicable practically.

The first area of future research articulated by Prateapusanond (2003) while introducing the concept of "Pre-Allocation of Total Float" can be quoted as:

"To test the practicality of this concept, it should be implemented in a real construction project. Although the concept of total float is successfully developed in this research, it might not solve all other scheduling problems that occur during construction"

(Prateapusanond 2003, pp. 214)

This research is an extension of Dr. Prateapusanond's research and concentrates on the above-mentioned area. The main aim of this study is to develop bookkeeping procedures to keep track of the ATF owned by the parties, namely, the owner and the contractor, at the start of the project and then keep track of the amount of total float used by individual parties and the corresponding remaining ATF during the course of the project. The study will also show how to apply these bookkeeping procedures for the successful application of the proposed concept of "Pre-Allocation of Total Float." The methodology adopted can be broadly divided into three parts:

1. Introducing the bookkeeping procedures

This section will explain the logic used in developing the bookkeeping procedures. It concentrates on explaining how to read what the tables depict and then uses an example to show how these tables could be used to keep track of the total float for each activity.

2. Testing these bookkeeping procedures on the examples considered by Dr. Prateapusanond to validate the proposed concept

The bookkeeping procedures explained in the previous section might appear to be very basic and hence their capability to monitor complex projects like the Alumni Continuing Education Center Hotel Complex (ACECHC) is questionable. To validate the developed bookkeeping procedures and before applying them straight on the complex ACECHC schedule, these have been applied to the factual examples developed by Dr. Prateapusanond, which are relatively less complex in nature. This section addresses the application of the bookkeeping procedures to these examples as a test to determine how they actually serve their purpose.

3. Applying these developed concepts to a real construction project

Once the competence of the developed bookkeeping procedures with the factual examples is confirmed, they have been applied to the 993-activity ACECHC schedule. This section addresses two areas. Firstly, it shows how the proposed concept can be applied to an actual construction project schedule and hence the first area of future research articulated in Dr. Prateapusanond's study. Secondly, it also tests the competence of the bookkeeping procedures developed on complex project schedules.

2.2 Research Scope

The scope of this research is restricted to developing bookkeeping procedures, which would help keep track of the ATF for the respective parties, and to show how these bookkeeping procedures could actually be used to apply the proposed concept of "Pre-Allocation of Total Float".

As predicted in the survey, the proposed concept does not address all the situations that are likely to occur during an actual, real-life construction project. During the course of this research, a number of such areas were identified. This research will highlight each situation in detail and present an example of the corresponding situation from the ACECHC schedule.

The successful application of any concept requires it to be fool-proof in nature. To continue with its application, necessary assumptions were made at each stage. The study will highlight the scheduling problem, present a real life example, explain the necessary assumptions, and show how the assumptions add value to the proposed concept. The decisions taken at each stage are merely assumptions and hence can vary from person to person. While going through this research it is very important to visualize the schedule. This research uses Fenced Bar Charts (Mellin and Whiteaker 1991) as a visualization tool. Hence, this research also addresses concern for scheduling problems and scheduling games.

Chapter 3

Cases not addressed by the concept of Pre-Allocation of Total Float

The basic rationale behind this research is to test the practicality and the applicability of the proposed concept of Pre-Allocation of Total Float. As previously predicted, the concept did not address all possible scheduling situations. While applying the concept to the ACECHC project schedule, a number of these areas were identified. Each of these areas is dealt with individually. To continue with the successful application of the proposed concept, assumptions were made as a solution to each of these problems. It should be noted that the solutions adopted are merely assumptions and hence can vary with a different perspective.

3.1 Delays to a Critical Activity (Increase in Float)

This situation occurs very often in an actual construction project. Consider the following example:

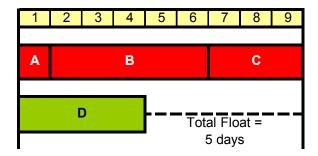


Figure 3-1. Section of an As-Planned Schedule

As illustrated in Figure 3-1, activities A, B, and C are critical, whereas activity D has a float of 5 days. As the project progresses, Activity A is delayed by 2 days. This

delays the project completion by 2 days and as a result, the float of activity D becomes 7 days.

The project status as of day 3 is as shown in the Figure 3-2.

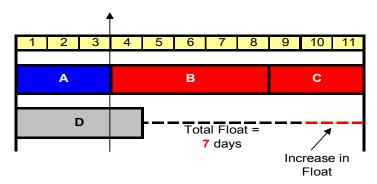


Figure 3-2. Project Status as of Day 3

This delay to a critical activity creates "newly created float" for activity D. The proposed concept does not consider this "newly created float" and hence it cannot be successfully applied unless it addresses this issue. Therefore, to apply the subject concept and to test the capability of the bookkeeping procedures developed, an assumption is made. For the purpose of this research, this newly created float is considered similar to the previously existing float. The same concept of equal allocation is applied again and hence this newly created float is distributed equally between the parties to the contract.

The Start – Finish database for the above example is as shown in Table 3-1.

Table 3-1. Start-Finish database explaining newly created float

	As Planned			Day 3			
ID	Start	Finish	TF	Start	Finish	TF	
Α	0	1	0	0	3		
В	1	6	0	3	8	0	
С	6	9	0	8	11	0	
D	0	4	5	0	4	7	

The corresponding ATF database is as shown in Table 3-2.

Table 3-2. ATF database explaining newly created float

	As Planned			Day 3			
ID	TF	Owner	KR	TF	Owner	KR	
Α	0	0	0	0	0	0	
В	0	0	0	0	0	0	
С	0	0	0	0	0	0	
D	5	2.5	2.5	7	3.5	3.5	

3.2 Delay to a Non-Critical Activity, In turn becomes critical

Consider the schedule shown in Figure 3-3.

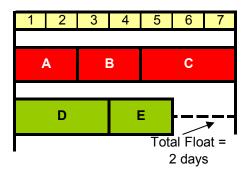


Figure 3-3. Section of the As-Planned Schedule

During the course of the project, activities A and B are completed as per schedule. The completion of activity D is delayed by 4 days. The status is as shown in the figure 3-4.

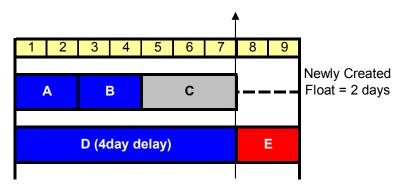


Figure 3-4. Project Status as of day 8

Initially activity C was critical, but due to the 4-day delay to activity D, is now no longer critical and has a float of 2 days. The concept does not consider the creation of any newly created float and to proceed with this application this situation must be addressed. This situation is similar to the situation discussed in 3.1, except that the delay is caused to a previously non-critical activity instead of a previous critical activity. This situation would be considered as another example of newly created float and this newly created float would be treated in the same way as 3.1 and hence would be distributed equally between the parties.

3.3 Acceleration to Critical Activity (Decrease in float)

Another situation, which occurs many times in construction projects, is acceleration. Consider the schedule as shown in the figure 3-5.

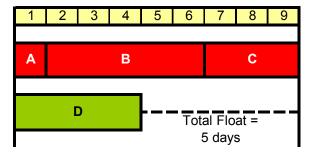


Figure 3-5. Section of the As-Planned Schedule

During the course of the project, activity B is accelerated. The completion of activity B is reduced to 2 days instead of the scheduled 5 days. This eventually decreases the float for activity D from 5 days to 2 days. The project status as of day 3 is as shown in figure 3-6.

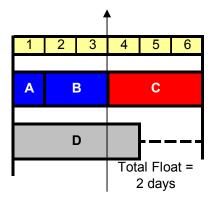


Figure 3-6. Project Status as of day 3

This situation has not been addressed by the concept of "Pre-Allocation of Total Float" and it was found to occur on more than one occasion when the ACECHC project was delayed due to weather and change orders. To continue with the successful application of this concept it was necessary to address this issue. Therefore, it was decided that the decrease in total float for the affected activities would be the deducted from the ATF of the party causing the acceleration. Nevertheless, to provide the party an incentive for the acceleration, the respective party is awarded an overall critical float of 3

days at the end of the project. This means that if this party delays the project completion sometime later during the course of the project by a period of three days or less, it is not penalized, unless the specifications are changed at the next contemporaneous update and the parties involved agree otherwise. "Critical Float" could be defined as the number of days the completion of the project could be delayed by a specific party without being penalized. It should be noted that only the responsible party could use this float. Therefore, the overall float for the non-critical activity will remain the same, but the calculations will show a reduction in the ATF value for the respective party for activity D. After considering this assumption, the project status would look as shown in Figure 3-11.

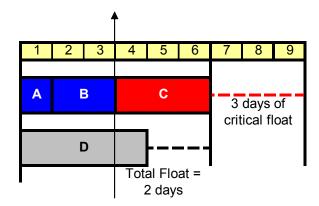


Figure 3-7. Project Status after applying the new concept

3.4 Acceleration to a non-critical activity (increase in float)

Acceleration is almost always in the best interests of the project. Another situation not addressed by the proposed concept is acceleration to a non-critical activity. Consider the following example:

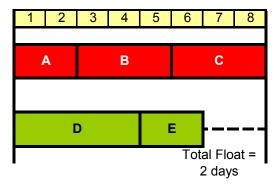


Figure 3-8. Section of the As-Planned Schedule

During the course of the project, activity D was accelerated to complete in 2 days. Completion of activity A was as per schedule. The status on day 2 is as shown in figure 3-9.

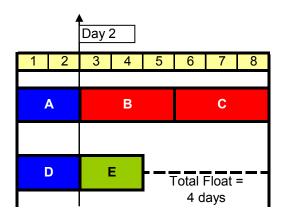


Figure 3-9. Project Status as of Day 2

An acceleration to activity D leads to newly created float for activity E. In such a situation it was assumed that this newly created float would be treated in the same way as it was treated in 3.1 and hence this additional 2 days of float for activity E would be divided equally between the parties.

3.5 Out of Sequence Progress

Until this point, we have considered examples in which the activities are completed in the order they were sequenced at the start of the project. Another situation, which is seen very often in a construction project, is out of sequence work. Consider the section of a schedule as shown in Figure 3-10.

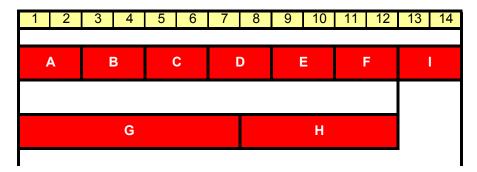


Figure 3-10. Section of the As-Planned Schedule

During the course of the project, activity C is completed before the start of activities A and B. Hence, it can be said that activity C is out of sequence. In the case of out of sequence work, the project schedule can be updated in two ways: using retained logic or progress override.

3.5.1 Retained Logic

When the project schedule is updated using the retained logic, activity C would be considered as a zero duration activity once it is completed. Therefore, the sequence of operations will remain the same and activity D will not start until activities A and B have completed (unless activity D is also completed out of sequence). The project schedule now would be as shown in figure 3-11.

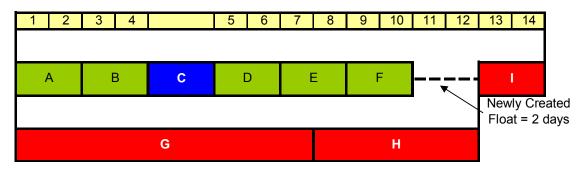


Figure 3-11. Schedule status using Retained Logic

The early completion of activity C makes activities A, B, D, E, and F non-critical. These activities now share a total float of 2 days. This is another example of newly created float and this would be dealt with in the same way as in 3.1. The schedule shown in the figure 3-11 shows how activities are updated using the concept of retained logic.

3.5.2 Progress Override

The other method adopted for scheduling out of sequence progress is using progress override. In this case, as soon as activity C starts before its preceding activities, these preceding activities no longer share the same path. The early start of activity C breaks the finish to start link between activities B and C. Hence, activities A and B are now no longer the predecessors for activities D, E, and F. Since there is no finish-start link between B and C, activities A and B no longer have a successor and are now linked to the last activity i.e. activity I in this case. This in turn makes them non-critical. The schedule is as shown in figure 3-12.

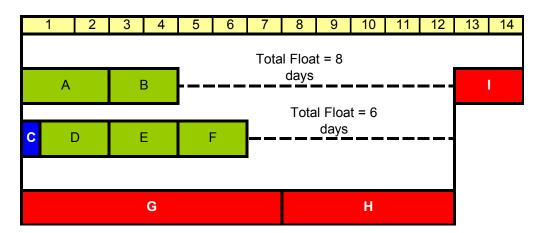


Figure 3-12. Schedule status using Progress Override for 3.5

In this case, the critical path breaks into two non-critical paths. Both paths have newly created float of 8 days and 6 days, respectively, and this float would be treated in the same way as 3.1.

The decision on which concept should be used to schedule out of sequence work is a management level decision. Usually, most contractors are not aware of which concept they wish to follow and hence the choice depends on the scheduling software used. Branch & Associates use Microsoft Project® for scheduling, which in turn uses the concept of progress override. Several cases were observed when the activities in the ACECHC project were completed out of sequence, which led to a sudden increase in the total float value of its preceding activities. This was because the project schedule was updated using progress override. The proposed concept does not address this issue of out of sequence progress. Since most of the time out of sequence progress leads to newly created float, some may just consider this issue to be another variation of the newly created float concept discussed in 3.1.

3.6 Unethical Scheduling

In these situations, the contractor manipulates the schedule in order to meet the needs of the project. Consider the example shown in Figure 3-19.

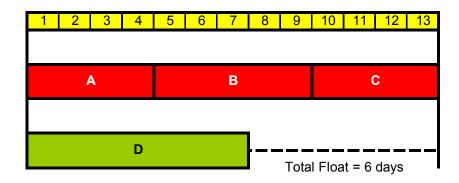


Figure 3-13. Section of an As Planned Schedule

The project status as of day 7 is as shown in figure 3-14.

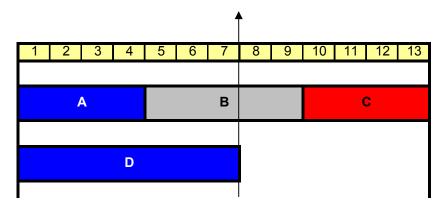


Figure 3-14. Project Status as of Day 7

As of day 7, activities A and D are completed as per schedule. Nevertheless, activity B has not even started. Eventually though, when the update on day 9 was carried out, Activity B is shown to complete as per schedule. Hence, the actual start for activity B is day 4 and the actual finish is day 9. The project status as of day 9 is as shown in figure 3-15.

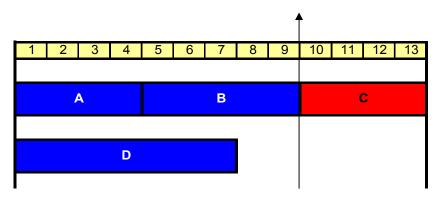


Figure 3-15. Project Status as of Day 9

The successful application of the proposed concept of "Pre-Allocation of Total Float" requires one to monitor the schedule closely. Hence, each intricate detail should be shown by the schedule as and when it occurs or else it might affect the process of monitoring the ATF values for each party. To explain this further, assume that activity B instead of being completed as per schedule was completed out of sequence. Consider the update as shown in Figure 3-16.

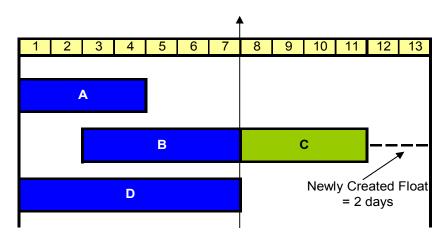


Figure 3-16. Different version of the Project Status as of Day 7

Instead of the status shown in Figure 3-15, had the update been as of Figure 3-16, becomes important to note the actual start date. The out of sequence progress for activity B due to its early start will affect the corresponding start and finish dates of all its successor activities. In complex schedules like the ACECHC project schedule, where one activity might be related to a number of other activities, the sooner one records any change in activity progress, the better it will be to monitor the progress of the successor activities.

3.7 Rescheduled Activities

When schedule updates are performed, not all activities are addressed to. Only the activities that have already started or have been completed are shown while updating. The activities that have not been performed at all are not reflected in the schedule updates. If the information of these activities is not made current, then the schedule gives a false impression of the present status. Consider the following example:

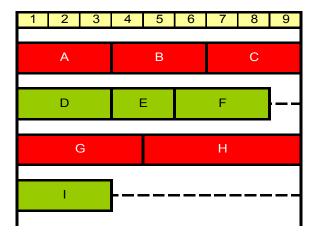


Figure 3-17. Section of an As Planned Schedule

It was decided to update this project at an interval of every 5 days. The project status as of day 5 is as shown in figure 3-18.

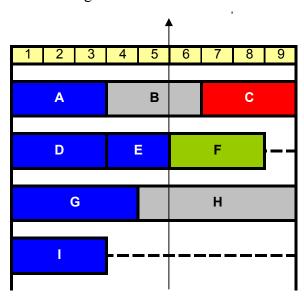


Figure 3-18. Project Status as of Day 5

As shown in Figure 3-18, activities B and H have not yet started. Even though the project status is day 5, these activities still have start and finish dates, which are the same as the As-Planned Schedule. To reflect the status of the project, these activities should be updated in such a way that they should start after day 5. The current project schedule would like:

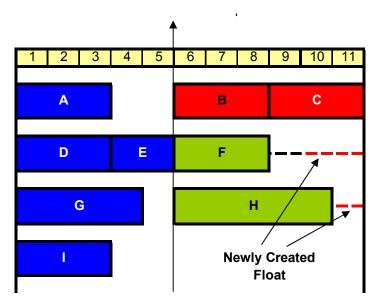


Figure 3-19. Rescheduled Schedule Update

This rescheduling of non-completed activities to start after the project status date will change the activity characteristics, i.e., their start and finish dates, and will result in a change in the total float values of many other activities in the schedule. This concept of rescheduling the updates has been adopted during the course of this research. The concept of "Pre-Allocation of Total Float" does not address this issue. To apply this concept successfully, another assumption needs to be made.

For the purpose of this research, each rescheduled update was treated as an As Planned Schedule for the next update. Any increase in total float value was distributed equally amongst the parties. Nevertheless, if there were a decrease in the total float value due to the activity being rescheduled, then the party responsible to complete that particular activity would be held responsible.

3.8 Shared Responsibility

The concept of "Pre-Allocation of Total Float" proposes to allocate the risk equally amongst parties and hence is a reasonable effort towards a more equitable system. Nevertheless, the concept assumes that any delay to an activity will be either a contractor delay or an owner delay. In construction, sometimes activities can be a responsibility of both the parties involved. For example, in the ACECHC project schedule, activity 993, i.e., SUBSTANTIAL COMPLETION, would be the responsibility of both parties. In cases such as these where it becomes difficult to allocate responsibility, the proposed concept does not hold true.

An assumption, for delays to shared responsibility activities, is to hold both the parties responsible and hence in case of any delay to such activities, the delay would be split equally and each party would see a decrease in its ATF value for the corresponding delay.

Chapter 4

Applying bookkeeping procedures to factual examples of allocating delay responsibilities

Dr. Prateapusanond proposed the concept of "Pre-Allocation of Total Float" as an effort towards a more fair and equitable system for float allocation (Prateapusanond 2003). The application of this concept would require both parties to the contract to monitor the schedule very closely.

4.1 The bookkeeping procedure

Monitoring the schedule in such detail would likely require maintaining two databases (Depending on their ability to deal with complex data, some may consider combining the two databases into a single database also). The first database records the start and the finish dates of each activity in the schedule, whereas the second database keeps track of the ATF value for each of the corresponding activities. Let us consider an example to see what the databases actually would do.

4.1.1 Example explaining the function of each database 04/05/04 04/08/04 As-Planned 04/07/04 04/08/04

Figure 4-1. Section of the As-Planned Schedule

Figure 4-1 shows a section of the As-Planned Schedule wherein, both the paths are critical. The contemporaneous update carried out as of April 7, 2004, is as shown in Figure 4-2.

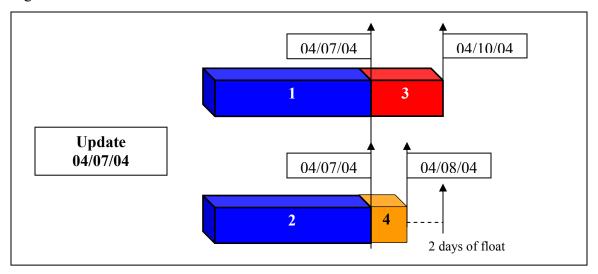


Figure 4-2. Project Status as of April 7, 2004

The activities shown in **red** are critical non-completed activities. Activities in **blue** are the completed activities [100% complete] and activities in **yellow** show the non-critical non-completed activities. The number shown in each bar is the activity ID and the dates shown in the respective flags are the respective completion or expected completion dates.

Table 4-1 shows the database that keeps track of the start and finish dates of each activity, and the total float associated with it. For the rest of the discussion to follow this database will be referred to as the "Start-Finish database."

Table 4-1. Start-Finish database

		As Planned		Updat	e 1 [April 7, 2	2004]
ID	Start	Finish	TF	Start	Finish	TF
1	4/1/2004	4/5/2004	0	4/1/2004	4/7/2004	
2	4/1/2004	4/7/2004	0	4/1/2004	4/7/2004	
3	4/6/2004	4/8/2004	0	4/8/2004	4/10/2004	0
4	4/8/2004	4/8/2004	0	4/8/2004	4/10/2004	2

The dates showed in bold represent the completed activities (shown in **blue** in Figure 4-2). The values highlighted in **yellow** represent a change from the previous value. In the given example, there is a delay in the completion of activity 1, now scheduled to complete on April 7, 2004. This delays the start and hence the finish of activity 3. Since all these values have changed when compared to the initial baseline, these are highlighted in the database shown in Table 4-1. Due to this delay, activity 4 is no longer critical and has a float of 2 days. Hence, there is a change in the float value of activity 4, which is also highlighted. In this example, the first set of Start, Finish, and Total Float (TF) values are for the initial As-Planned Schedule. The next set of values is for Update 1 (the contemporaneous update carried out on April 7, 2004). As and when the project status is updated, this current table is appended with a new set of values. This helps the user to know the exact status of the project on each update and hence makes it easier to determine the cause of any change in the schedule.

The second database created keeps track of the Allowable Total Float. For the rest of the discussion this database will be referred to as the "ATF database" and is as shown in Table 4-2:

Table 4-2. ATF database

		As Planned		Updat	e 1 [April 7,	2004]
ID	TF	Owner	KR	TF	Owner	KR
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	0	0	0	2	1	1

The total float allocation database helps one to monitor the allowable total float values owned by both parties for every activity in the schedule. It also highlights any change in the value of the total float when compared to its previous update. This helps the user see any change in the total float value of one particular activity through a series of updates. Hence, this database keeps track of the total float for each activity and the allowable total float for that respective activity owned by the parties to the contract. Considering the same example, in the As-Planned Schedule, all the activities were critical

and hence the float associated with each activity is zero. The allowable total float for both parties too would be zero. On the first update carried out on April 7, 2004, activity 1 is delayed which in turn delays activity 3. Activity 4 is no longer critical and now has a float of 2 days. This change in float value is highlighted in the database. The zero values highlighted in grey depict completed activities.

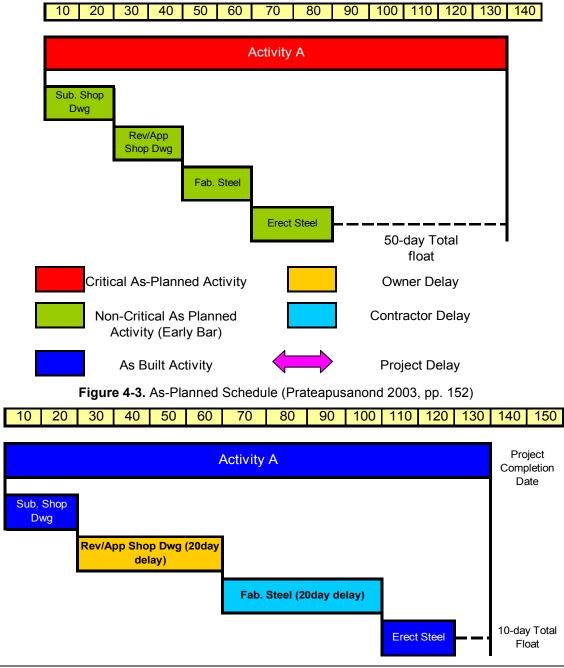
These procedures may seem to appear very basic from the above explanation and hence their capability in keeping track of complex projects like the ACECHC project (993-activity schedule) is questionable.

To check whether these basic procedures comply with the complexity in a real project, they have been applied to the factual examples developed by Dr. Prateapusanond to explain the new concept of Pre-Allocation of Total Float. Once they were used for the case studies successfully, the same procedures were be used to monitor the ACECHC project schedule.

4.2 Applying concepts to factual examples of allocating delay responsibilities

To check whether these basic bookkeeping procedures are applicable to varying situations seen in the construction industry, these are first applied to the factual examples created by Prateapusanond (2003). The cases cover a variety of different scenarios in which delay can occur and how this delay can be allocated.

4.2.1 Owner delay<ATF, Contractor delay < ATF; Project Delay = 0



The owner delays in reviewing steel shop drawings for 20 days and the contractor later delays the steel fabrication for 20 days. The project completion date remains unchanged. Under this situation, the owner and the contractor do not have to respond for any delay because the amount of their accumulated delays does not affect the project completion date.

Figure 4-4. As Built Schedule (Prateapusanond 2003, pp. 153)

In this example, Figure 4-3 represents the As-Planned Schedule and Figure 4-4 represents the As Built Schedule. Let us assume that the activities in the non-critical path were all of 20-day duration and activity A has 130-day duration. Since these examples were not developed with respect to dates, we shall consider the Start of the project as "day 0" and hence the project completion is "day 130." The Start-Finish database for this example is as shown in Table 4-3.

Table 4-3. Start-Finish database

	As	Planned		Upda	ate1 [Day	/ 20]	Upda	ite2 [Day	/ 60]	Upda	te3 [Day	100]	Upda	ite4 [Day	/120]	Α	s Built	
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
Activty A	0	130	0	0	130	0	0	130	0	0	130	0	0	130	0	0	130	
Sub. Shop Dwg	0	20	50	0	20		0	20		0	20		0	20		0	20	
Rev/App Shop Dwg	20	40	50	20	40	50	20	60		20	60		20	60		20	60	
Fab. Steel	40	60	50	40	60	50	60	80	30	60	100		60	100		60	100	
Erect Steel	60	80	50	60	80	50	80	100	30	100	120	10	100	120		100	120	

While carrying out the contemporaneous updates, any changes with respect to the previous update in the start/finish dates or total float values are highlighted in yellow. This helps the user monitor the schedule is detail and predict at the end of every stage which party was responsible for a delay to the project completion or an acceleration. The numbers showed in **bold** represents the completed activity.

The corresponding ATF database for this example is as shown in Table 4-4.

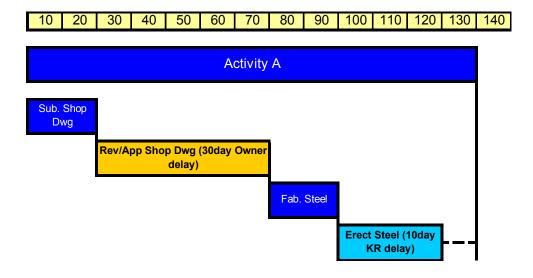
Table 4-4. ATF database

	Α	s Planne	d	Upda	ate1 [Day	/ 20]	Upo	late2 [Da	y 60]	Upda	ate3 [Day	/ 100]	Upd	ate4 [Da	y120]		As Built	
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR
Activty A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub. Shop Dwg	50	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rev/App Shop Dwg	50	25	25	50	25	25	0	5	25	0	0	0	0	0	0	0	0	0
Fab. Steel	50	25	25	50	25	25	30	5	25	0	5	5	0	0	0	0	0	0
Erect Steel	50	25	25	50	25	25	30	5	25	10	5	5	0	5	5	0	0	0
							20 day Owner delay			20 0	day Contr delay	actor						

Since the number of days used by each party is less than the ATF owned by the parties, the parties are not penalized for these delays.

4.2.2 Owner delay > ATF, Contractor delay < ATF; Project Delay = 0

Consider the same As Planned Schedule as shown in the previous example. This example considers a delay in which the owner uses more float than the ATF value. As shown in the figure 4-5, there is a 30-day owner delay followed by a 10-day contractor delay.



The owner delays the review of steel shop drawings for 30 days and later the contractor later delays the erection of steel for 10 days. An accumulation of total float consumption on the steel activity path is 40 days, which does not have an effect on the project completion date. The owner and the contractor in this case do not have to respond for any delay.

Figure 4-5. As Built Schedule (Prateapusanond 2003, pp. 155)

The Start-Finish Database for this example is shown in Table 4-5.

Table 4-5. Start-Finish database

	As	Plannec	l		Day 20			Day 70			Day 90			Day 120		As Bu	ilt [day	130]
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
Activty A	0	130	0	0	130	0	0	130	0	0	130	0	0	130	0	0	130	
Sub. Shop Dwg	0	20	50	0	20		0	20		0	20		0	20		0	20	
Rev/App Shop Dwg	20	40	50	20	40	50	20	70		20	70		20	70		20	70	
Fab. Steel	40	60	50	40	60	50	70	90	20	70	90		70	90		70	90	
Erect Steel	60	80	50	60	80	50	90	110	20	90	110	20	90	120		90	120	

The corresponding ATF database is shown in Table 4-6.

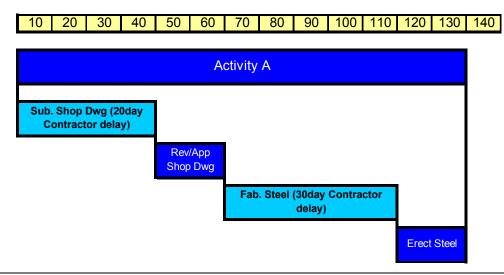
Table 4-6: ATF database

	Α	s Planne	ed		Day 20			Day 70			Day 90			Day 120)	As E	uilt [day	130]
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR
Activty A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub. Shop Dwg	50	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rev/App Shop Dwg	50	25	25	50	25	25	0	-5	25	0	0	0	0	0	0	0	0	0
Fab. Steel	50	25	25	50	25	25	20	-5	25	0	-5	25	0	0	0	0	0	0
Erect Steel	50	25	25	50	25	25	20	-5	25	20	-5	25	0	-5	15	0	0	0
							30 da	ay Owner	delay				10 (day Contr delay	actor			

In this case the "-5" value in the owner's column shows that the owner has used 5 days more than his allowable limit (ATF value = 25). Since the contractor has just used 10 days out of his 25 days, the remaining ATF of 15 days owned by the contractor compensates for the extra 5 days used by the owner. There is no delay to the project completion and hence none of the parties is penalized for the delay. Had there been a delay to the project completion due to the delays, then the owner would have been penalized for having used 5 days more than his allowable limit.

4.2.3 Owner delay = 0, Contractor delay > ATF; Project Delay = 0

In this case, the contractor first causes a 20-day delay, which is followed by another contractor responsible delay of 30 days. The As Built Schedule is as shown Figure 4-6.



The contractor delays the submission of steel shop drawings for 20 days and later delays the steel fabrication for 30 days. In sum, the contractor consumes float times of the steel activities for 50 days. In this situation, the contractor does not have to respond for any delay because the accumulation of the contractor's delays does not affect the project completion date or the consumptions of total float does not exceed the total float.

Figure 4-6. As Built Schedule (Prateapusanond 2003, pp. 156)

The Start Finish database for the above case is as shown below:

Table 4-7: Start-Finish database

	As	Planned	I		Day 40			Day 60			Day 110		As B	uilt [day	130]
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
Activty A	0	130	0	0	130	0	0	130	0	0	130	0	0	130	
Sub. Shop Dwg	0	20	50	0	40		0	40		0	40		0	40	
Rev/App Shop Dwg	20	40	50	40	60	30	40	60		40	60		40	60	
Fab. Steel	40	60	50	60	80	30	60	80	30	60	110		60	110	
Erect Steel	60	80	50	80	100	30	80	100	30	110	130	0	110	130	

The corresponding ATF database is shown in Table 4-8.

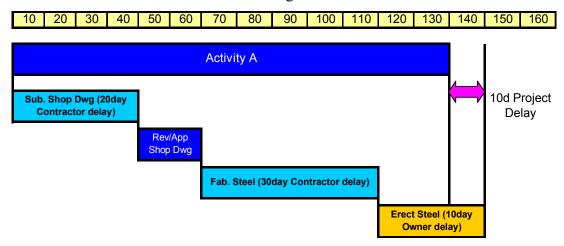
Table 4-8: ATF database

	Α	s Planne	ed		Day 40			Day 60			Day 110)	As I	Built [day	/ 130]
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR
Activty A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub. Shop Dwg	50	25	25	0	25	5	0	0	0	0	0	0	0	0	0
Rev/App Shop Dwg	50	25	25	30	25	5	0	25	5	0	0	0	0	0	0
Fab. Steel	50	25	25	30	25	5	30	25	5	0	25	-25	0	0	0
Erect Steel	50	25	25	30	25	5	30	25	5	0	25	-25	0	25	-25
				20 day Contractor delay						30 c	day Contr delay	actor			

At update 3, the contractor has used the entire 50 days of total float. The contractor owned just 25 days of float, whereas the owner owned the remaining 25 days. Hence, for activity "Erect Steel," the float value shown under the KR column is -25. The owner does not cause any delay during the course of the project. This compensates for the additional days used by the contractor. Overall, there is no delay to the project and hence, the contractor is not penalized.

4.2.4 Owner delay < ATF, Contractor delay > ATF; Project Delay = 10 days

The As Built Schedule is as shown in Figure 4-7.



The contractor delays the submission of steel shop drawings for 20 days and delays the steel fabrication for 30 days; subsequently, the owner later delays the steel erection for 10 days. In sum, the contractor consumes steel activity float times for 50 days (25 days beyond the allowable amount) and the owner consumes float times for 10 days (within the allowable amount of 25 days). In this situation, the accumulation of all delays has affected the project completion date for 10 days. The owner who used float time within the allowable times does not have to respond for the project delay while the contractor is held responsible for the project delay of 10 days.

Figure 4-7. As Built Schedule (Prateapusanond 2003, pp. 159)

The Start Finish database for the above case is as shown in Table 4-9.

Table 4-9: Start-Finish database

	As	Plannec	i		Day 40			Day 60			Day 110			Day 130		As Bu	ilt [day	140]
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
Activty A	0	130	0	0	130	0	0	130	0	0	130	0	0	130		0	130	
Sub. Shop Dwg	0	20	50	0	40		0	40		0	40		0	40		0	40	
Rev/App Shop Dwg	20	40	50	40	60	30	40	60		40	60		40	60		40	60	
Fab. Steel	40	60	50	60	80	30	60	80	30	60	110		60	110		60	110	
Erect Steel	60	80	50	80	100	30	80	100	30	110	130	0	110	130	0	110	140	-10

The corresponding ATF database is as shown in Table 4-10.

Table 4-10: ATF database

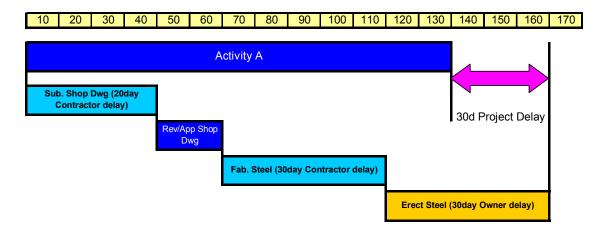
	Α	s Planne	ed		Day 40			Day 60			Day 110)		Day 130)	As B	uilt [day	140]
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR
Activty A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub. Shop Dwg	50	25	25	0	25	5	0	0	0	0	0	0	0	0	0	0	0	0
Rev/App Shop Dwg	50	25	25	30	25	5	0	25	5	0	0	0	0	0	0	0	0	0
Fab. Steel	50	25	25	30	25	5	30	25	5	0	25	-25	0	0	0	0	0	0
Erect Steel	50	25	25	30	25	5	30	25	5	0	25	-25	0	25	-25	-10	15	-25
				20 day Contractor delay						30 0	day Contr delay	actor				10 da	y Owner	delay

At update 3, the contractor delays the activity by 50 days of float, which is greater than the ATF value of 25 days. Until this point, though there is no delay to the project completion. The owner then delays Activity "Erect Steel" by 10 days which in turn, delays the completion of the project by 10 days. This activity is therefore the proximate cause of the delay and hence under the current scheduling practices, the owner is responsible for the delay.

According to the concept of "Pre-Allocation of Total Float," the owner owns 25 days of float for that set of activities (since total float is shared by all the activities in that particular path) and uses 10 days from his allotted 25 days of total float. According to this new concept, it will be the contractor who has used 25 days more than his allotted ATF, and who will be penalized for the 10 days of delay.

4.2.5 Owner delay > ATF, Contractor delay > ATF; Project Delay = 30 days

In this example, we consider a combination of delays where both parties use more days than their allowable limit. The As Built Schedule is as shown in Figure 4-8.



The contractor delays the submission of steel shop drawings for 20 days and delays the steel fabrication for 30 days; subsequently, the owner later delays the steel erection for 30 days. In sum, the contractor consumes float times of the steel activities for 50 days (25 days beyond the allowable amount) and the owner consumes float times for 30 days (5 days beyond the allowable amount). Under this situation, the accumulation of all delays has affected the project completion date for 30 days. The owner is held responsible for the project delay of 5 days while the contractor is held responsible for 25 days.

Figure 4-8. As Built Schedule (Prateapusanond 2003, pp. 162)

The Start-Finish database for the above case is as shown in Table 4-11.

Table 4-11: Start-Finish database

	As	Planned	i		Day 40			Day 60			Day 110			Day 130		As Bu	ilt [day	160]
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
Activty A	0	130	0	0	130	0	0	130	0	0	130	0	0	130		0	130	i
Sub. Shop Dwg	0	20	50	0	40		0	40		0	40		0	40		0	40	
Rev/App Shop Dwg	20	40	50	40	60	30	40	60		40	60		40	60		40	60	
Fab. Steel	40	60	50	60	80	30	60	80	30	60	110		60	110		60	110	
Erect Steel	60	80	50	80	100	30	80	100	30	110	130	0	110	130	0	110	160	-30

The Concept of Pre-Allocation of Total Float: Bookkeeping Procedures

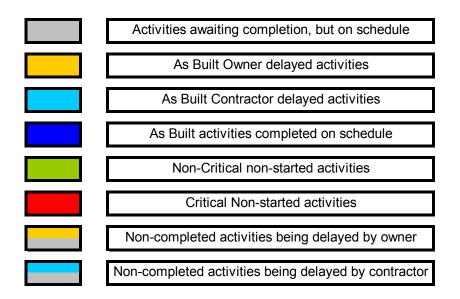
The corresponding ATF database is as shown in Table 4-12.

Table 4-12: ATF database

	Α	s Planne	ed		Day 40			Day 60			Day 110)		Day 130)	As B	uilt [Day	160]
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR
	_					•			•			•	•		•	_		_
Activty A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub. Shop Dwg	50	25	25	0	25	5	0	0	0	0	0	0	0	0	0	0	0	0
Rev/App Shop Dwg	50	25	25	30	25	5	0	25	5	0	0	0	0	0	0	0	0	0
Fab. Steel	50	25	25	30	25	5	30	25	5	0	25	-25	0	0	0	0	0	0
Erect Steel	50	25	25	30	25	5	30	25	5	0	25	-25	0	25	-25	-30	-5	-25
				20 day Contractor delay				30 c	lay Contr delay	actor				30 da	ay Owner	delay		

4.2.6 Considers 2 non-critical paths which eventually become critical

Legend:



The As-Planned Schedule is as shown in Figure 4-9.

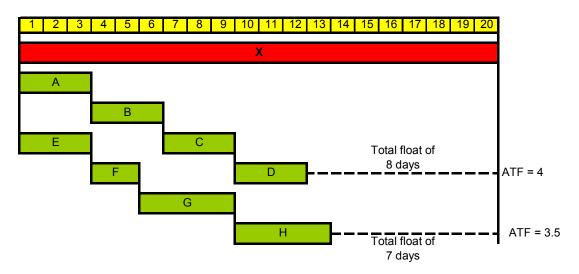
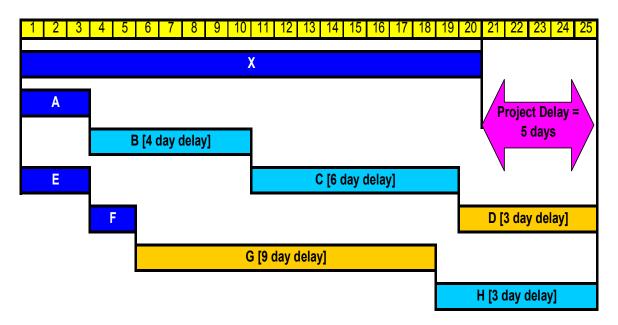


Figure 4-9. As-Planned Schedule (Prateapusanond 2003, pp. 164)

This example shows how the bookkeeping procedures can be used to keep track of concurrent delays. Activities A, B, C, D, and E have duration = 3 days. Activity F = 2 days and activities G and H have a 4 day duration each. Activity X represents the critical activity with duration of 20 days.



The As Built Schedule for the above example is as shown in Figure 4-10.

This case involves concurrent delays occurring on the two then-critical paths, an accumulation of which does change the project completion date for 5 days. Considering the first path of A-D, the contractor delays this path for 10 days in total which 6 days beyond its ATF while the owner delays this path for 3 days within its ATF. Therefore, the contractor is held responsible for 5 days of project delays on the activity path of A-D.

On the same token, the owner delays Activity G on the path of E-H for 9 days which 5.5 days beyond its ATF; and the contractor delays Activity H for 3 days within its ATF. On this path of E-H, the owner is held responsible for the 5-day project delay. In conclusion, since both parties are held responsible for the 5d project delay, the owner must give a 5d time extension to the contractor, but the 5 days of delay are not compensable.

Figure 4-10. As Built Schedule (Prateapusanond 2003, pp. 167)

The Start Finish database is as shown in Table 4-13.

Table 4-13: Start-Finish database

	As	Plannec	ı		Day 3			Day 5			Day 10		Day 18			Day 19			Day 20		As Built [Day 25]									
ID	Start	rt Finish TF		Start	Finish	TF	Start Finish TF		TF	Start Finish TF		TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF						
X	0	20	0	0	20	0	0	20	0	0	20	0	0	20	2	0	20	2	0	20										
Α	0 3 8		8	0	3		0	3		0	3		0	3		0	3		0	3		0	3							
В	3	6	8	3	6	8	3	6	8	3	10		3	10		3	10		3	10		3	10							
С	6	9	8	6	9	8	6	9	8	10	13	4	10	18	1	10	19		10	19		10	19							
D	9	12	8	9	12	8	9	12	8	13	16	4	19	21	1	19	22	0	19	22	0	19	25	-3						
Ε	0	3		0	3		0	3		0	3		0	3		0	3		0	3		0	3							
F	3	5	7	3	5 7		3	5		3	5		3	5		3	5		3	5		3	5							
G	5	9	7	5	9	9	9	9	9	9	9	7	5	9	7	5	10	6	5	18		5	18		5	18		5	18	
Н	9	13	7	9	13	7	9	13	7	10	14	6	18	22	-2	18	22	-2	18	22	-2	18	25	-5						
										activ Own	R delay trity B & 1 er delay tritivity G	d	Activity	ner delag y G & 5d to activit	KR		R delay ctivity C	to				Contr	Owner a cactor de ncurrent	lay						

The corresponding ATF database is as shown in Table 4-14.

Table 4-14: ATF database

	As Planned				Day 3			Day 5			Day 10			Day 18			Day 19			Day 20		As Built [Day25]			
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	
X	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	2	1	1	0	1	1	0	0	0	
Α	8	4	4	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
В	8	4	4	8	4	4	8	4	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	
С	8	4	4	8	4	4	8	4	4	4	4	0	1	5	-4	0	5	-5	0	0	0	0	0	0	
D	8	4	4	8	4	4	8	4	4	4	4	0	1	5	-4	0	5	-5	0	5	-5	-3	2	-5	
Ε	7	3.5	3.5	0	3.5	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
F	7	3.5	3.5	7	3.5	3.5	0	3.5	3.5	0	0	0	0	0	- - 		0	0	0	0	0	0	0	0	
G	7	3.5	3.5	7	3.5	3.5	7	3.5	3.5	6	2.5	3.5	0	-5.5	3.5	0	0	0	0	0	0	0	0	0	
Н	7	3.5	3.5	7	3.5	3.5	7	3.5	3.5	6	2.5	3.5	-2	-5.5	3.5	-2	-5.5	3.5	-2	-5.5	3.5	-5	-5.5	0.5	
										act Ow	KR delay ivity B & ner delay activity C	1d y to	Activ	wner del ity G & 5 y to activ	id KR		KR dela Activity (Con	y Owner tractor d	elay	

The Analysis:

The project status as of day 5 is as shown in Figure 4-11.

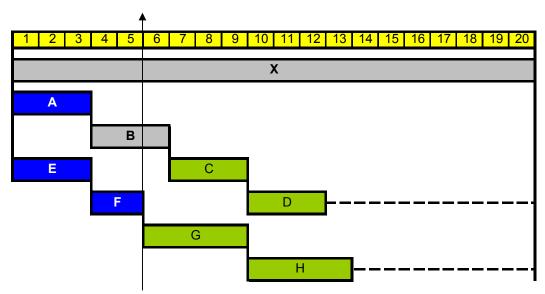


Figure 4-11. Project Status as of Day 5

As illustrated in Figure 4-11, activities A, E, and F are completed on schedule. Activity B has an actual start, but is not yet completed and hence is shown in **Grey**. The next update is carried out on day 10. The project status as of day 10 is as shown in Figure 4-12.

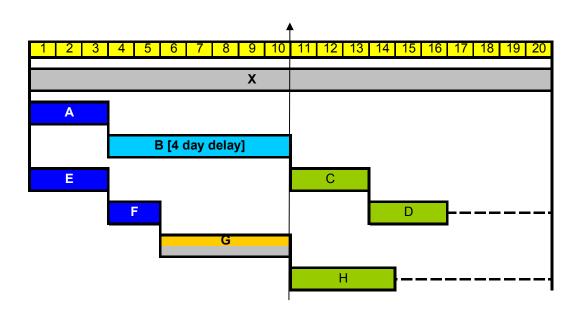


Figure 4-12. Project Status as of Day 10

As shown in Figure 4-12, the completion of activity B is delayed by 4 days. This decreases the total float on activities C and D by 4 days. The contractor is held responsible for this delay and the corresponding decrease in float. The owner will still own his 4 days ATF for this path [as shown in Table 4-12]

As of day 10, activity G has not yet been completed and its completion time is uncertain. Activity G is suffering from an owner responsible delay. As of day 10, this activity records a delay of 1 day, which shifts activity H by 1 day. It also reduces the float for activities G and H by 1 day for which the owner is held responsible, and the corresponding value is deducted from the owner's ATF [as shown in table 4-12].

This delay does not affect the project completion but the noticeable effects can be summarized as:

- Reduction in float for activities C and D; contractor held responsible
- Activity G still not completed
 - o reduction in float for activities G and H; owner held responsible
 - o Start of activity H delayed

The next update is carried out on day 18. The project status as of day 18 is as shown in Figure 4-13.

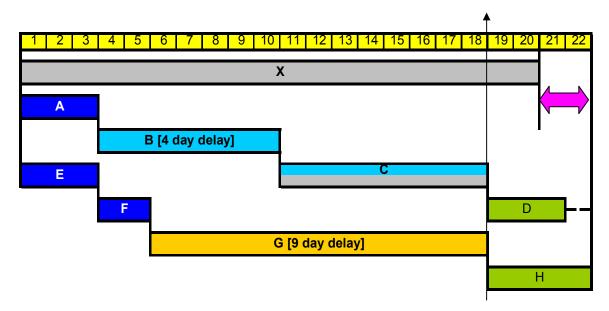


Figure 4-13. Project Status as of Day 18

As illustrated in Figure 4-13, the completion of activity G is delayed by 9 days. Until the last update, activities G and H had a float of 6 days out of which the owner owned 2.5 days [3.5(initial float) – 1(delay to activity G as of Day 10) = 2.5 days]. An additional delay of 8 days to activity G delays the project by 2 days, because of which activity H now becomes critical. The owner is held responsible for this delay and its corresponding effect to the ATF values is seen in Table 4-14. The project delay of two days is represented by "-2" TF in Table 4-14.

The project delay of 2 days consequentially increases the float for activities C and D by 2 days. This newly created float is split equally between the parties and hence activities C and D now have a float of 6 days out which 5 days are owned by the owner and 1 day by the contractor.

The delay of 2 days to the project completion makes activity X non-critical. It now has newly created float of two days that is also split equally between the two parties.

As of day 18, activity C has not yet been completed. The contractor has delayed activity C and the activity completion time is uncertain. Hence, for this update, activity C is stretched to day 18, which delays the start of activity D. After the newly created float, the path had a total float of 6 days. Activity C has already used up 5 days of this float and now the activities C and D share a float of 1 day amongst themselves. The contractor is held responsible for this delay and hence this value of 5 days is subtracted from the contractor's ATF value [as shown in Table 4-14].

The noticeable effects of the delay could be summarized as:

- Delay to project completion by 2 days
- Activity H is now critical
- Newly created float for activities C and D
- Activity C is stretched to day 18 since it has not yet been completed. Hence, the contractor has already delayed this activity by 5 days. The corresponding effect to float values is seen in Table 3-14.
- Activity X has newly created float of 2 days that is split equally between the parties.

The next update is carried out on day 19. Activity C has been delayed further by 1 day. This makes activity D critical. The project status as of day 19 is as shown in Figure 4-14.

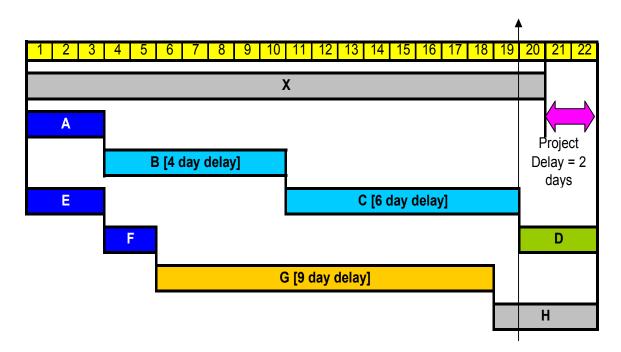


Figure 4-14. Project Status as of Day 19

As illustrated in Figure 4-14, activity D had a float of 1 day remaining at the end of the last update. This delay to activity C makes activity D critical. The contractor is held responsible for this delay.

Activity X is completed as per schedule. The final update is carried out on day 25. It is realized that the owner has delayed the completion of activity D by 3 days concurrently with the contractor's delay of 3 days to activity H. The As-Built Schedule is as shown in Figure 4-15.

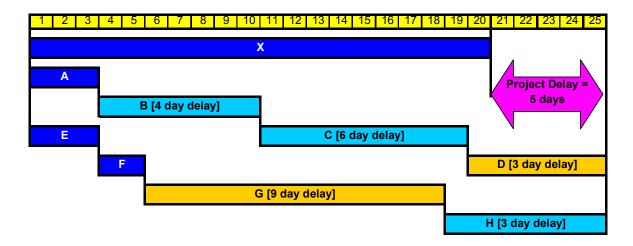


Figure 4-15. As Built Schedule (Prateapusanond 2003, pp. 167)

In this example, both the non-critical paths, i.e., A-B-C-D and E-F-G-H, become critical. The owner would be responsible for all 5 days of delay because path E-F-G-H produces the longest path and the longest delay, i.e., -5.5 + 0.5 = -5 [refer to Table 3-14]. The path A-B-C-D produces a 3-day delay i.e. +2 - 5 = -3 [refer to Table 3-14].

5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 17 | 18 I; ATF=3 Total Float = 6 days H; ATF=3 G; ATF=3 В C J; ATF=1.5 D Ε K; ATF = 1.5 L; ATF=1.5 ATF=4.5 M; ATF = 1.5Total Float = 3 days

4.2.7 Example showing multiple non-critical paths

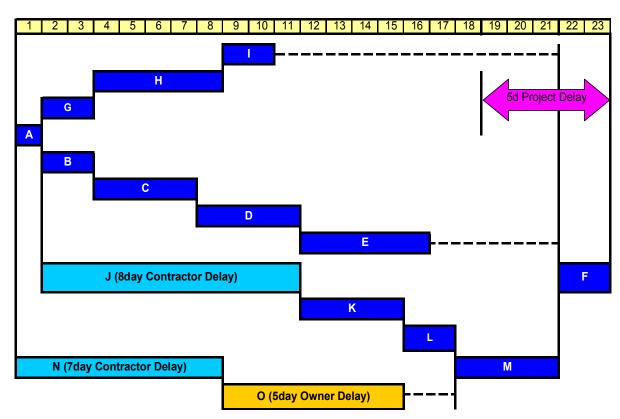
Figure 4-16. As-Planned Schedule (Prateapusanond 2003, pp. 169)

The durations of activities are:

- 1 day => Activity A and N
- 2 days => Activities B, F, G, I, J, L, and O

Total Float = 6 days

- 4 days => Activities C, D, K, and M
- 5 days => Activities E and H



The As Built Schedule is as shown in Figure 4-17.

Figure 4-17. As Built Schedule (Prateapusanond 2003, pp. 171)

The contractor delays activity J and N by 8 days and 7 days, respectively. The owner delays activity O by 5 days. The net effect of these delays is a delay of 5 days to the project completion.

The corresponding Start Finish database is as shown in Table 4-15.

Table 4-15: Start-Finish database

	As	As Planned Day 1				Day 3			Day 7			Day 8			Day 10			Day 11			Day 15			Day 16		Day 17				Day 21			As Built [da		23]	
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
Α	0	1	0	0	1		0	1		0	1		0	1		0	1		0	1		0	1		0	1		0	1		0	1		0	1	
В	1	3	0	1	3	0	1	3		1	3		1	3		1	3		1	3		1	3		1	3		1	3		1	3		1	3	
С	3	7	0	3	7	0	3	7	0	3	7		3	7		3	7		3	7		3	7		3	7		3	7		3	7		3	7	
D	7	11	0	7	11	0	7	11	0	7	11	1	7	11	2	7	11	4	7	11		7	11		7	11		7	11		7	11		7	11	
Ε	11	16	0	11	16	0	11	16	0	11	16	1	11	16	2	11	16	4	11	16	5	11	16	5	11	16		11	16		11	16		11	16	
F	16	18	0	16	18	0	16	18	0	17	19	-1	18	20	-2	20	22	-4	21	23	-5	21	23	-5	21	23	-5	21	23	-5	21	23	-5	21	23	
G	1	3	6	1	3	6	1	3		1	3		1	3		1	3		1	3		1	3		1	3		1	3		1	3		1	3	
Н	3	8	6	3	8	6	3	8	6	3	8	7	3	8		3	8		3	8		3	8		3	8		3	8		3	8		3	8	
ī	8	10	6	8	10	6	8	10	6	8	10	7	8	10	8	8	10		8	10		8	10		8	10		8	10		8	10		8	10	
J	1	3	3	1	3	3	1	3	3	1	7	-1	1	8	-2	1	10	-4	1	11		1	11		1	11		1	11		1	11		1	11	
K	3	7	3	3	7	3	3	7	3	7	11	-1	8	12	-2	10	14	-4	11	15	-5	11	15		11	15		11	15		11	15		11	15	
L	7	9	3	7	9	3	7	9	3	11	13	-1	12	14	-2	14	16	-4	15	17	-5	15	17	-5	15	17	-5	15	17		15	17		15	17	
M	9	13	3	9	13	3	9	13	3	13	17	-1	14	18	-2	16	20	-4	17	21	- 5	17	21	-5	17	21	-5	17	21	-5	17	21		17	21	
N	0	1	9	0	1	9	0	3	7	0	7	4	0	8		0	8		0	8		0	8		0	8		0	8		0	8		0	8	
0	0 1 3 9 1 3						3	5	7	7	9	4	8	10	4	8	10	6	8	11	6	8	15		8	15		8	15		8	15		8	15	
								(R delay Act. N	' to	4d KR delays to Act. J & N			1d KR delay to Act. J & N			2d KR delay to Act. J		1d KR delay to Act. J; 1d Owner delay to Act. O			4d Owner delay to Act. O														_	

The Corresponding ATF database is as shown in Table 4-16.

Table 4-16: ATF database

	As Planned			Day 1			Day 3			Day 7			Day 8			Day 10			Day 11			Day 15			Day 16				Day 17			Day 21			Built [da	ıy23]
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR
											1															1		ı								_
Α	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
В	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
С	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	1	0.5	0.5	2	1	1	4	2	2	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	1	0.5	0.5	2	1	1	4	2	2	5	2.5	2.5	5	2.5	2.5	0	2.5	2.5	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	-1	0	-1	-2	0	-2	-4	0	-4	-5	0	-5	-5	0	-5	-5	0	-5	-5	0	-5	-5	0	-5	-5	0	-5
G	6	3	3	6	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Н	6	3	3	6	3	3	6	3	3	7	3.5	3.5	0	3.5	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	6	3	3	6	3	3	6	3	3	7	3.5	3.5	8	4	4	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
J	3	1.5	1.5	3	1.5	1.5	3	1.5	1.5	-1	1.5	-2.5	-2	1.5	-3.5	4	1.5	-5.5	0	1.5	-6.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
K	3	1.5	1.5	3	1.5	1.5	3	1.5	1.5	-1	1.5	-2.5	-2	1.5	-3.5	-4	1.5	-5.5	-5	1.5	-6.5	0	1.5	-6.5	0	0	0	0	0	0	0	0	0	0	0	0
L	3	1.5	1.5	3	1.5	1.5	3	1.5	1.5	-1	1.5	-2.5	-2	1.5	-3.5	-4	1.5	-5.5	-5	1.5	-6.5	-5	1.5	-6.5	-5	1.5	-6.5	0	1.5	-6.5	0	0	0	0	0	0
M	3	1.5	1.5	3	1.5	1.5	3	1.5	1.5	-1	1.5	-2.5	-2	1.5	-3.5	4	1.5	-5.5	-5	1.5	-6.5	5	1.5	-6.5	-5	1.5	-6.5	-5	1.5	-6.5	0	1.5	-6.5	0	0	0
N	9	4.5	4.5	9	4.5	4.5	7	4.5	2.5	4	4.5	-0.5	0	4.5	-0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	9 4.5 4.5 9 4.5 4.				4.5	7	4.5	2.5	4	4.5	-0.5	4	4.5	-0.5	6	5.5	0.5	6	5	1	0	1.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	
								KR dela Act. N	y to		KR delay Act. J & I		1d KR delay to Act. J & N			2d KR delay to Act. J		1d KR delay to Act. J; 1d Owner delay to Act. O			4d Owner delay to Act. O															

The Analysis:

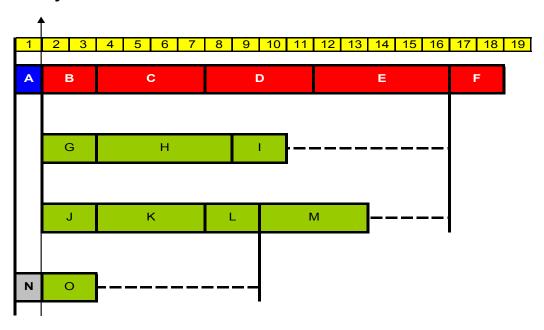


Figure 4-18. Project Status as of Day 1

The first update is carried out at day 1. Activity A is completed on schedule. Activity N has an actually start but its completion is uncertain. The project status as of day 1 is as shown in Figure 4-18.

The next update is carried out on day 3. The project status as of day 3 is as shown in figure 4-19.

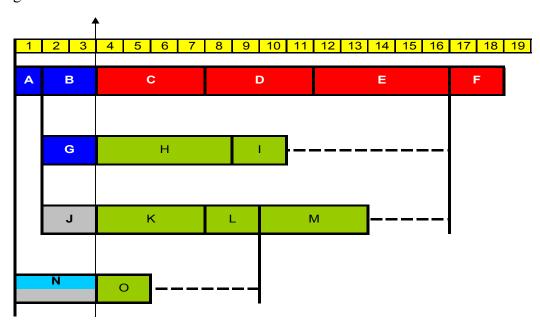


Figure 4-19. Project Status as of Day 3

As of day 3,

- Activity B is completed as per schedule
- The completion of activity N is still uncertain

Hence, for this update activity N is stretched to 3 days. This delays the start of activity O and reduces the float for activities N and O by 2 days. The contractor is delaying the completion of activity N and hence, the contractor is penalized for this reduction in float value. Thus, the value of TF for activities N and O reduce from 9 days to 7 days and the ATF value for the contractor for these activities reduces from 4.5 to 2.5, respectively (as shown in Table 3-16).

The next update is carried out on Day 7. The project status as of day 7 is as shown in the Figure 4-20.

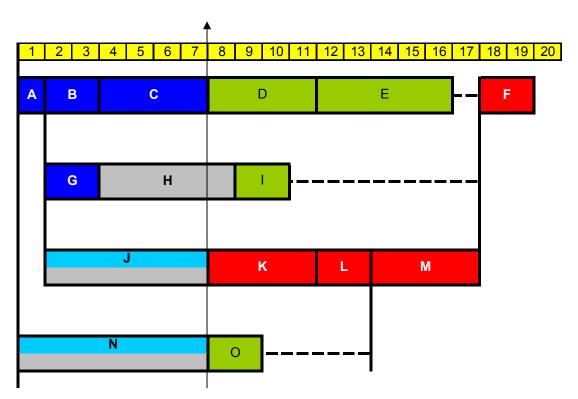


Figure 4-20. Project Status as of Day 7

As of Day 7,

- Activity C is completed as per schedule
- The completion of activities J and H is still uncertain
- Activity H has an actual start date and is progressing as per schedule

Hence, for this update, activities J and H are stretched to day 7. This delays the start of activities K and O respectively.

The contractor continues to delay the completion of activity N whereas the contractor also delays the completion of Activity J concurrently.

Path J-K-L-M

Activities J, K, L, and M shared a float of 3 days. This 4-day delay makes these activities critical. In fact, there is now a delay of 1 day to the project completion. This has three significant impacts:

- Activities D and E are no longer critical, and share a newly created float of 1 day
- Activities N and O lose the 3 days of float, which was shared with activity M since activity M is now critical.
- The total float for activities H and I also increases by 1 day due to this delay.

Path N-O

Activity N also experiences a delay of 4 days but this delay is concurrent with the delay to Activity J. Hence, this delay has no impact on the total float values for the activities in this path.

The next update is carried out on Day 8. The project status as of day 8 is as shown in figure 4-21.

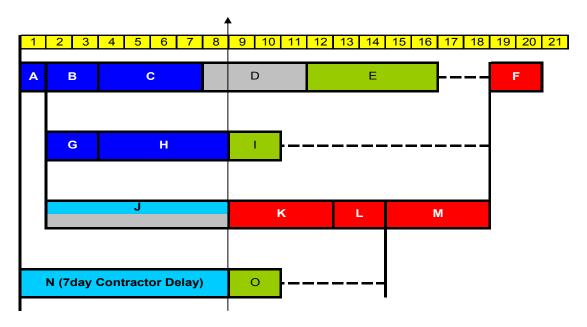


Figure 4-21. Project Status as of Day 8

As of Day 8, as illustrated in figure 4-21,

- Activity H is completed as per schedule
- Activity D has an actual start and progresses as per schedule
- Activity N is further delayed by one more day for its completion
- The completion of activity J is still uncertain and hence it records one more day of delay until the update that further delays the project by a day

The delays to activity J and N are concurrent and hence the delay to activity N does affect the project completion or the total float values for the activities in that path. Nevertheless, the delay to activity J delays the project completion by one more day and it increases the float for activities E and I by 1 day. This newly created float is split equally between the participating parties (as shown in Table 4-16).

The next update is carried out on day 10. The project status as of day 10 is as shown in figure 4-22.

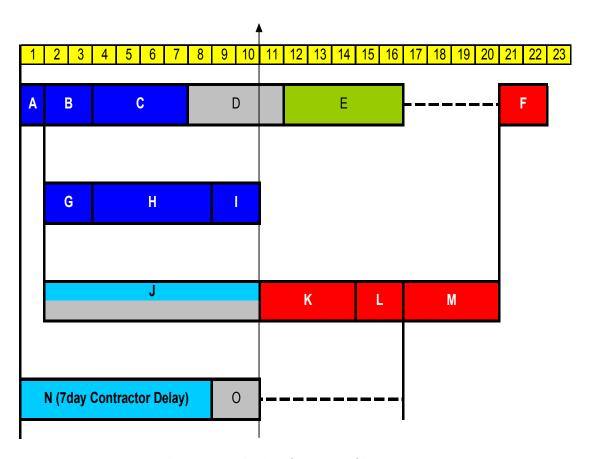


Figure 4-22. Project Status as of Day 10

As illustrated in Figure 4-22,

- Activity I is completed as per schedule
- Activity D that is progressing is on schedule as well
- Activity O has an actual start but its completion is uncertain
- The completion of activity J is still uncertain.

Hence, for this update, Activity J is stretched to day 10. This further delays the project by 2 days and as a result increases the float for activity E by 2 days. The participating parties share this newly created float. (As shown in Table 4-16)

The next update is carried out on day 11. The project status as of day 11 is as shown in the figure 4-23.

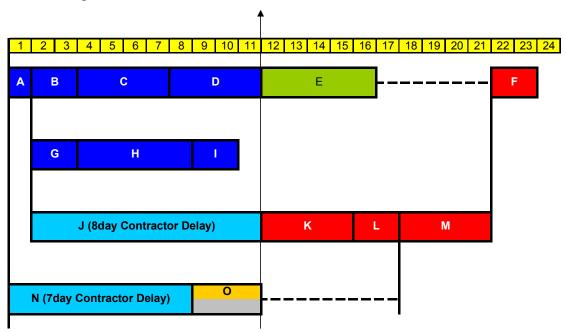


Figure 4-23. Project Status as of Day 11

As of Day 11,

- Activity D is completed on schedule
- Activity J is further delayed by 1 day and has now been completed. This delays the project by one more day and as a result increases the float on Activity E by one day.
- The completion of activity O is still uncertain

Hence, for this update, activity O is stretched to Day 11. The delay to Activity J increases the float for Activity O by 1 day. This one day of float is split equally between the owner and the contractor and hence the respective ATF values are 6(5.5 + 0.5) and 1(0.5 + 0.5). The delay to activity O is an owner responsible delay and hence the reduction in total float for activity O due to this delay is the owner's responsibility. Hence the final values of ATF for activity O are:

Owner =
$$6 - 1 = 5$$
 days
Contractor = 1 day (as shown in Table 4-16)

The next update is carried out on Day 15. The project status as of day 15 is as shown in the Figure 4-24.

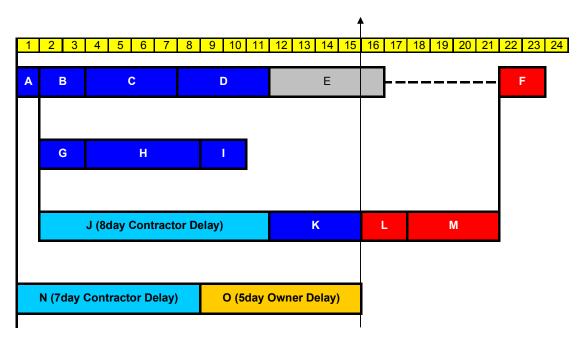


Figure 4-24. Project Status as of Day 15

As illustrated in Figure 4-24,

- Activity E is progressing as per schedule
- Activity K is completed on schedule
- Activity O is further delayed by 4 days for its completion

Activity O had a float of 6 days and hence this 4-day delay does not have any effect on the project completion. The delay is an owner responsible delay and hence the corresponding value is deducted from the owners ATF for activity O (as shown in Table 3-16).

The rest of the activities are completed as per schedule. Hence, in this example, the contractor is held responsible for the project delay.

Chapter 5

Applying the concepts to a real construction project

The bookkeeping procedures developed were successfully applied to the factual examples developed by Prateapusanond (2003) in Chapter 4. Even though the examples cover a number of different scenarios, the validity of the developed concepts could still be questioned with respect to its application on complex construction projects. To make sure that the concept and the bookkeeping procedures can be successfully applied to any project, it was decided to apply these concepts on a real construction project schedule. The project chosen for this purpose was the Alumni Continuing Education Center Hotel Complex (ACECHC) at Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, Virginia.

5.1 Alumni Continuing Education Center Hotel Complex: Brief Overview

The construction of the ACECHC is currently being undertaken near the Duck Pond on the Virginia Tech golf course. This new project includes a state of the art conference center and hotel, as well as a museum dedicated to the Virginia Tech memorabilia.

Project Motive and Project Specifics

Virginia Tech is a senior land grant institution whose aim is to be amongst the top 30 research institutions by 2010. The ACECHC project was planned keeping in mind this motive and with the idea of replacing Donaldson Brown as the continuing education center.

The main criteria during the project planning phase was for this facility to be close to the main campus, have scope for future expansion and most importantly, easy to locate on campus. A highly landscaped facility was another major requirement for this project. Keeping all these requirements in mind, the Virginia Tech Golf Course was chosen as the most appropriate location on campus for the ACECHC project. The contract amount for the project is \$31,490,700.00 with the entire facility expected to be costing around \$45,000,000.00. This requires an overall construction of approximately 184,000 sq. ft. on an area of 23 acres.

The parties involved are:

Owner: Virginia Polytechnic Institute & State University

Architect: Sherertz Franklin Crawford Shaffner, Inc.

General Contractor: Branch & Associates, Inc.

Project Start Date: April 14, 2003 (Notice to Proceed)

Initial Project Completion Date: March 21, 2005

The entire project is divided into three parts:

The Alumni Hall:

Housing the museum dedicated to the Virginia Tech memorabilia, the Alumni Hall will be a three-level, 50,000 sq. ft. structure, which uses Hokie Stones mounted over concrete masonry units. The facility is designed with high-end castellan architecture with a collegiate gothic aesthetic.

The Continuing Education and Conference Center:

This is a three-level, 70,000 sq. ft. facility, expected to house the banquet room, meeting rooms and other administrative offices.

The Hotel Complex:

A four-level, 64,000 sq. ft. hotel complex housing 143 single guest rooms and 6 suites. Virginia Tech has issued revenue bonds worth \$20,000,000 to Hilton as the operating body.

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Contractor Information

The general contractor chosen for this job is Branch & Associates, Inc. They have been general contractors since 41 years and are licensed to work in the states of North Carolina, Tennessee, Virginia, and West Virginia. Branch & Associates is a 100% employee owned company with a bonding capacity of around \$300,000,000 and has already done work worth \$275,000,000 in college and university construction. Being in this business for over 40 years now, Branch & Associates has successfully completed a total of 15 projects at Virginia Tech since 1989.

Project Schedule

Branch & Associates, Inc. developed a project schedule for this project. The contract had a notice to proceed of April 14, 2003, and the project was expected to finish by spring 2005. This As Planned Schedule had 993 activities with a completion date of March 21, 2005. During the course of the project, in the summer of 2003, the area experienced heavy rains because of which there was a delay to the project completion of 45 days. The project had also suffered an additional delay of 14 days due to change orders. After negotiations between the parties, the newly adjusted contract completion date for the project was set for May 19, 2005. There is no clause in the contract for liquidated damages, but the contract clearly specifies that the contractor would be held responsible for damages in case of any delay to the start of this facility.

Contract Enforcement

The contract on this project is enforced jointly by the Architects/Engineers (A/E) and the General Contractor (GC). The owner has also hired McDonough Bolyard Peck (MBP) as the construction manager, which approves the progress payments, change orders and the project schedule. The A/E and the GC meet the requirements of their respective contracts and advise the owner of the status of the project and MBP keeps a constant supervision.

5.2 The As-Planned Schedule

Branch & Associates has been generous in providing schedule updates every month to facilitate this research. The first schedule received from Branch & Associates was the June update, also the first resource loaded schedule for the project. This research is aimed at applying the concept of Pre-Allocation of Total Float to the ongoing ACECHC project schedule and then carrying out an impact analysis on the schedule updates. To achieve this purpose there was a need for an As-Planned Schedule. No As-Planned Schedule was provided during the course of this research. The June schedule provided was an updated schedule and hence, to go on with this research, there was a need to develop an As Planned Schedule.

To develop this As-Planned Schedule, the constraint type for all the activities in the June schedule was changed to "as soon as possible" and the corresponding updates of all the updated activities were removed, i.e., percentage complete for all activities was changed to 0%. This procedure did not provide the same result as an actual As-Planned schedule would have, so to carry on with this research, the following assumption was made. According to this newly developed As-Planned Schedule, the notice to proceed is April 15, 2003, and the project completion date is May 19, 2005

The Start-Finish database for the As-Planned Schedule was made using this schedule. The same schedule was then analyzed to find the respective total float values for each activity and to calculate the allowable total float owned by the parties for each corresponding activity and thereby create the ATF database. Appendix A shows the combined Start-Finish and the Allowable Total Float (ATF) database for the developed As-Planned Schedule. The activities highlighted in yellow are the hammocks that give us an overall picture of how long that particular section is going to take.

5.3 The Updating Procedure

Maintaining an up to date schedule is in the interests of all the parties involved. Every contractor has its own preference. Some prefer to update it on daily basis, some on a weekly basis and some may even consider producing monthly updates. For this project, the schedule was updated on a monthly basis. To facilitate this research, Branch & Associates provided an updated schedule every month. These monthly updates are carried out somewhere in between the 17th to the 24th of each month.

Once these updates were received, they were carefully studied to filter out the completed activities, and the activities, which had an actual start associated with them. Since this research does not use the As-Planned Schedule developed by Branch & Associates, Inc., it was not possible to use their updates directly. Hence, the activities which had progressed had to be updated on the as-planned schedule created for this project.

The activities are updated contemporaneously based on their start and finish dates. Whenever an activity was updated, the schedule was carefully studied to observe its effects on the remaining activities. Only after quantifying the effect of every activity updated in the project schedule was the next activity updated. Therefore, every time an activity is updated, a set of three operations are carried out:

- The corresponding effect on the rest of the activity and the project schedule is studied
- For each activity updated, the start-finish database is appended
- Once the total float for each activity is recorded in the start finish database, the ATF database is appended using the concept of Pre-Allocation of Total Float and the assumptions discussed in Chapter 3

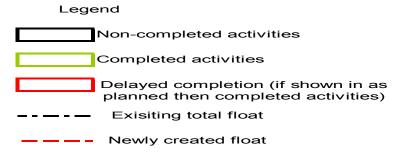
The next activity is updated only after this set of operations is completed for the previous activity.

Once all the activities have been updated, the concept discussed in Section 3.7, which suggests rescheduling the remaining activities to start after the project status date, is used. All the activities, which have not yet started, are rescheduled to start after the project status date for that update. After rescheduling, the new project schedule is studied for its effects on the non-completed activities. Any changes in the Start-Finish dates or the float values are noted down and the corresponding changes are made in the start-finish database and the ATF database. Once these changes have been made, the update is complete and this update serves as a baseline for the next months update.

5.4 The June Update

The June schedule was considered the most appropriate to demonstrate how the concept of Pre-Allocation of Total Float and the bookkeeping procedures are applied to a real construction project. During the month of June 2003, 17 activities were completed and seven activities had an actual start associated with them. In all the other updates, the number of activities updated was so high that it was not feasible to include it in this study.

The first activity to be updated was the "Notice to Proceed." This activity was delayed from April 15, 2003 by 6 days and was completed on April 21, 2003. Being the first activity, it was obviously critical and caused a delay to the project completion by 6 days. The delay to the notice to proceed causes an increase in float for some of the non-critical activities. As suggested in Section 3.1, this newly created float is treated in the same way as the previously existing float and hence is divided equally between the owner and the contractor. Figure 5-1 represents a section of As-Planned Schedule and Figure 5-2 shows the status as of April 21, 2003. It is not feasible to show all the activities in the figures shown to visualize the effects. Hence, in this chapter, only the figures in which the number of activities is feasible to be shown are presented. These figures show only the activity/activities causing the changes and the activities that are affected.



The numbers inside the boxes represent the activity ID and the numbers shown above the dashed lines are the respective float values. An attempt has been made to go through every type of scenario before presenting the result.

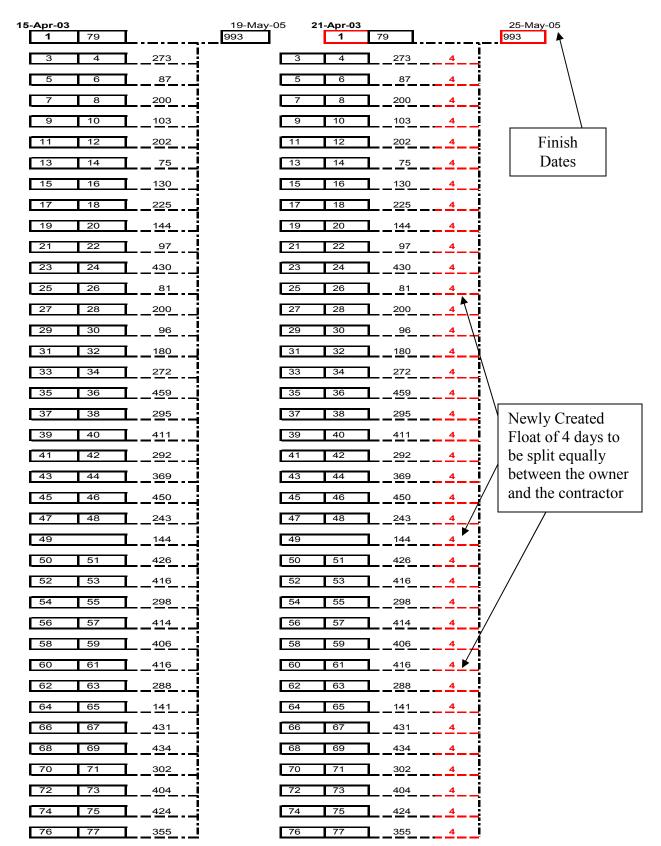


Figure 5-1. Section of As Planned Schedule

Figure 5-2. Section of Update as of April 21, 2003

The change in the start-finish database can be seen in Table 5-1.

Table 5-1 Section of Start-Finish database for the activities shown in Figures 5-1, 5-2

ID Start		As P	lanned		1 [April 21]					
1 4/15/2003 4/15/2003 5/75 4/15/2003 5/9/2003 79 3 4/15/2003 4/24/2003 273 4/15/2003 4/24/2003 277 4 5/9/2003 5/9/2003 273 5/9/2003 4/24/2003 277 5 4/15/2003 4/15/2003 87 4/15/2003 4/15/2003 277 5 4/15/2003 4/15/2003 87 4/15/2003 4/15/2003 277 5 4/15/2003 4/15/2003 87 4/15/2003 4/15/2003 277 5 4/15/2003 4/15/2003 87 4/30/2003 4/15/2003 91 7 4/15/2003 4/15/2003 200 4/15/2003 4/15/2003 204 8 4/30/2003 4/30/2003 103 4/15/2003 4/15/2003 204 9 4/15/2003 4/15/2003 103 4/15/2003 4/15/2003 204 9 4/15/2003 4/15/2003 103 4/15/2003 4/15/2003 107 11 4/15/2003 4/15/2003 202 4/15/2003 4/15/2003 204 12 4/30/2003 4/30/2003 202 4/15/2003 4/15/2003 204 13 4/15/2003 4/15/2003 75 5/2/2003 76 14 5/2/2003 5/2/2003 75 5/2/2003 4/15/2003 206 14 5/2/2003 5/2/2003 75 5/2/2003 4/15/2003 79 15 4/15/2003 4/15/2003 130 4/15/2003 4/15/2003 79 16 4/30/2003 4/30/2003 130 4/30/2003 4/30/2003 134 17 4/15/2003 4/15/2003 130 4/30/2003 4/30/2003 134 17 4/15/2003 4/15/2003 225 4/15/2003 4/15/2003 226 18 4/30/2003 4/30/2003 125 4/15/2003 4/15/2003 134 17 4/15/2003 4/23/2003 144 4/15/2003 4/15/2003 229 19 4/15/2003 5/12/2003 5/25 4/15/2003 4/15/2003 229 19 4/15/2003 5/12/2003 5/12/2003 5/12/2003 5/12/2003 14/15/2003 14/1	ID			TF			TF			
2	1		4/15/2003	0	4/21/2003	4/21/2003	0			
4 5/9/2003 5/9/2003 273 5/9/2003 5/9/2003 274 5/2003 4/15/2003 91 6 4/30/2003 4/30/2003 87 4/15/2003 4/30/2003 91 6 4/30/2003 4/30/2003 87 4/30/2003 4/30/2003 200 4/15/2003 4/30/2003 200 4/30/2003 4/30/2003 200 4/30/2003 4/30/2003 200 4/30/2003 4/30/2003 200 4/30/2003 4/30/2003 200 4/30/2003 4/30/2003 4/30/2003 4/30/2003 103 4/30/2003 4/30/2003 103 4/30/2003 4/30/2003 103 4/30/2003 4/30/2003 4/30/2003 103 4/30/2003 4/30/2003 202 4/30/2003 4/30/2003 202 4/30/2003 4/30/2003 202 4/30/2003 4/30/2003 203	2		5/29/2003	75			79			
6 4/30/2003 4/30/2003 87 4/36/2003 4/15/2003 91	3		4/24/2003		4/15/2003	4/24/2003				
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73 4/30/2003 4/30/2003 404 4/30/2003 4/30/2003 408 74 4/15/2003 4/15/2003 424 4/15/2003 4/15/2003 428 75 4/30/2003 4/30/2003 424 4/30/2003 4/30/2003 428 76 4/15/2003 4/15/2003 355 4/15/2003 4/15/2003 359										
74 4/15/2003 4/15/2003 424 4/15/2003 4/15/2003 428 75 4/30/2003 4/30/2003 424 4/30/2003 4/30/2003 428 76 4/15/2003 4/15/2003 355 4/15/2003 4/15/2003 359							408			
75 4/30/2003 4/30/2003 424 4/30/2003 4/30/2003 428 76 4/15/2003 4/15/2003 355 4/15/2003 4/15/2003 359							428			
							428			
77 4/30/2003 4/30/2003 355 4/30/2003 4/30/2003 <mark>359</mark>							359			
	77	4/30/2003	4/30/2003	355	4/30/2003	4/30/2003	359			

The numbers highlighted in **red** represent a delay to the activity completion.

The numbers highlighted in **blue** represent a change in the float values.

The numbers highlighted in yellow represent the hammock that summarizes all these activities

"1 [April 21]" represents the activity updated (shown in **bold**) and the project status The corresponding changes in the ATF database can be seen in Table 5-2.

Table 5-2. Section of ATF database for the activities shown in Figures 5-1, 5-2

		As Planned		1 [April 21]				
ID	TF	Owner's ATF	KR's ATF	TF	Owner	KR		
1	0	0	0	0	0	0		
2	75	Ť	Ť	79				
3	273	136.5	136.5	277	138.5	138.5		
4	273	136.5	136.5	277	138.5	138.5		
5	87	43.5	43.5	91	45.5	45.5		
6	87	43.5	43.5	91	45.5	45.5		
7	200	100	100	204	102	102		
8	200	100	100	204	102	102		
9	103	51.5	51.5	107	53.5	53.5		
10	103	51.5	51.5	107	53.5	53.5		
11	202	101	101	206	103	103		
12	202	101	101	206	103	103		
13	75	37.5	37.5	79	39.5	39.5		
14	75	37.5	37.5	79	39.5	39.5		
15	130	65	65	134	67	67		
16	130	65	65	134	67	67		
17	225	112.5	112.5	229 229	114.5	114.5 114.5		
<u>18</u> 19	225 144	112.5 72	112.5 72	148	114.5 74	74		
20	144	72	72	148	74	74		
21	97	48.5	48.5	101	50.5	50.5		
22	97	48.5	48.5	101	50.5	50.5		
23	430	215	215	434	217	217		
24	430	215	215	434	217	217		
25	81	40.5	40.5	85	42.5	42.5		
26	81	40.5	40.5	85	42.5	42.5		
27	200	100	100	204	102	102		
28	200	100	100	204	102	102		
29	96	48	48	100	50	50		
30	96	48	48	100	50	50		
31	180	90	90	184	92	92		
32	180	90	90	184	92	92		
33	272	136	136	276	138	138		
34	272	136	136	276	138	138		
35	459	229.5	229.5	463	231.5	231.5		
36	459	229.5	229.5	463	231.5	231.5		
37	295	147.5	147.5	299	149.5	149.5		
38	295	147.5	147.5	299	149.5	149.5		
39	411	205.5	205.5	415	207.5	207.5		
40	411	205.5	205.5	415	207.5	207.5		
41	292	146	146	296	148	148		
42	292	146	146	296	148	148		
43 44	369	184.5	184.5	373	186.5	186.5		
45	369 450	184.5 225	184.5 225	373 454	186.5 227	186.5 227		
46	450	225	225	454	227	227		
47	243	121.5	121.5	247	123.5	123.5		
48	243	121.5	121.5	247	123.5	123.5		
49	144	72	72	148	74	74		
50	426	213	213	430	215	215		
51	426	213	213	430	215	215		
52	416	208	208	420	210	210		
53	416	208	208	420	210	210		
54	298	149	149	302	151	151		
55	298	149	149	302	151	151		
56	414	207	207	418	209	209		
57	414	207	207	418	209	209		
58	406	203	203	410	205	205		
59	406	203	203	410	205	205		
60	416	208	208	420	210	210		
61	416	208	208	420	210	210		
62	288	144	144	292	146	146		
63	288	144	144	292	146	146		
64	141	70.5	70.5	145	72.5	72.5		
65	141	70.5	70.5	145	72.5	72.5		
66 67	431 431	215.5 215.5	215.5 215.5	435 435	217.5 217.5	217.5		
68	434	215.5	≥15.5 217	435	217.5	217.5 219		
69	434	217	217	438	219	219		
70	302	151	151	306	153	153		
71	302	151	151	306	153	153		
72	404	202	202	408	204	204		
73	404	202	202	408	204	204		
74	424	212	212	428	214	214		
75	424	212	212	428	214	214		
76	355	177.5	177.5	359	179.5	179.5		
77	355	177.5	177.5	359	179.5	179.5		
			_					

The numbers highlighted in **blue** represent a change in the float values.

The numbers highlighted in yellow represent the hammock that summarizes all these activities

"1 [April 21]" represents the activity updated (shown in **bold**) and the project status The next two activities, i.e., Activities 79 and 86 were completed as per schedule. On April 25, 2003, activities 91 and 92 instead of starting on May 16, 2003, and June 2, 2003, respectively, were both started on April 25, 2003. The status before the start of activities 91 and 92 is as shown in Figure 5.3.

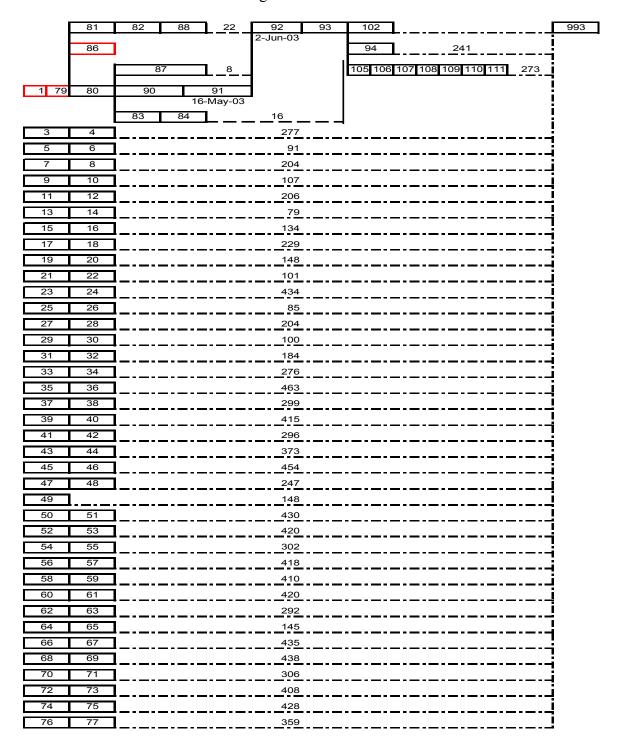


Figure 5-3. Status as of April 24, 2003

The status as of April 25, 2003, is as shown in figure 5-4.

Figure 5-4. Status as of April 25, 2003

Both these activities are critical in nature and hence this acceleration was in the benefit of the project. The estimated project completion now shifts to an earlier date of April 19, 2005 instead of May 25, 2005. This situation of acceleration to a critical activity has already been discussed in Section 3.3. The acceleration causes a reduction in the float value for a number of activities. The new float values are highlighted in red in Figure 5-4. As discussed in Section 3.3, the contractor's ATF value would show a corresponding reduction for these activities. However, since the project is now going to finish early, the contractor is awarded a critical float of 11 + 25 = 36 days (since the project completion is now April 19, 2005, instead of May 25, 2005) at the end of the project. Hence, at this stage, the contractor owns a critical float of 36 days.

The change in the Start-Finish database and the ATF database can be seen in Tables 5-3 and 5-4, respectively.

In Table 5-3, the numbers highlighted in **red** represent a change in the Start-Finish values of the respective activity. The numbers highlighted in **blue** represent a change to the total float value of the respective activity. The numbers shown in **blue** represent a completed activity.

In Table 5-4, the numbers highlighted in **blue** represent an increase in float. The numbers highlighted in **yellow** represent a decrease in float. The numbers shown in **blue** represent completed activities.

Table 5-3. Section of the Start-Finish database for the activities shown in Fig. 5-3, 5-4

	As Planned				opril 241		[April24]		91,92Start [April25]			
ID	As- Start	-Planned Finish	TF	1 [Start	april 21] Finish	TF	86 Start	[April24] Finish	TF	91,92St Start		TF
1	4/15/2003	4/15/2003		4/21/2003		0	4/21/2003	4/21/2003	0	4/21/2003	4/21/2003	0
3	4/15/2003	4/24/2003		4/15/2003	4/24/2003	277	4/15/2003	4/24/2003	277	4/15/2003		251
<u>4</u> 5	5/9/2003 4/15/2003			5/9/2003 4/15/2003	5/9/2003 4/15/2003	277 91	5/9/2003 4/15/2003	5/9/2003 4/15/2003	277 91	5/9/2003 4/15/2003	5/9/2003 2 4/15/2003	251 65
6	4/30/2003		87	4/30/2003		91	4/30/2003	4/30/2003	91	4/30/2003	4/30/2003	65
7	4/15/2003	4/15/2003	200	4/15/2003	4/15/2003	204	4/15/2003	4/15/2003	204	4/15/2003		178
<u>8</u>	4/30/2003 4/15/2003	4/30/2003 4/15/2003	103	4/30/2003 4/15/2003	4/30/2003 4/15/2003	204 107	4/30/2003 4/15/2003	4/30/2003 4/15/2003	204 107	4/30/2003 4/15/2003	4/30/2003 1 4/15/2003	178 81
10	4/30/2003	4/30/2003	103	4/30/2003	4/30/2003	107	4/30/2003	4/30/2003	107	4/30/2003	4/30/2003	81
11	4/15/2003	4/15/2003	202	4/15/2003	4/15/2003	206	4/15/2003	4/15/2003	206	4/15/2003		180
12 13	4/30/2003 4/15/2003		202 75	4/30/2003 4/15/2003		206 79	4/30/2003 4/15/2003	4/30/2003 4/17/2003	206 79	4/30/2003 4/15/2003	4/30/2003 4/17/2003	180 53
14	5/2/2003	5/2/2003	75	5/2/2003	5/2/2003	79	5/2/2003	5/2/2003	79	5/2/2003	5/2/2003	53
15 16	4/15/2003 4/30/2003		130	4/15/2003 4/30/2003	4/15/2003 4/30/2003	134 134	4/15/2003 4/30/2003	4/15/2003 4/30/2003	134 134	4/15/2003 4/30/2003		108 108
17	4/15/2003			4/15/2003	4/15/2003	229	4/15/2003	4/15/2003	229	4/15/2003		203
18	4/30/2003	4/30/2003	225	4/30/2003	4/30/2003	229	4/30/2003	4/30/2003	229	4/30/2003		203
19 20	4/15/2003 5/8/2003	4/23/2003 5/8/2003	144	4/15/2003 5/8/2003	4/23/2003 5/8/2003	148 148	4/15/2003 5/8/2003	4/23/2003 5/8/2003	148 148	4/15/2003 5/8/2003		122 122
21	4/15/2003			4/15/2003		101	4/15/2003	5/1/2003		4/15/2003	5/1/2003	75
22	5/16/2003			5/16/2003	5/16/2003	101	5/16/2003	5/16/2003	101	5/16/2003	5/16/2003	75
23 24	4/15/2003 4/30/2003	4/15/2003 4/30/2003		4/15/2003 4/30/2003	4/15/2003 4/30/2003	434 434	4/15/2003 4/30/2003	4/15/2003 4/30/2003	434 434	4/15/2003 4/30/2003		408 408
25	4/15/2003			4/15/2003		85	4/15/2003	4/22/2003	85	4/15/2003	4/22/2003	59
26	5/7/2003	5/7/2003	81	5/7/2003	5/7/2003	85	5/7/2003	5/7/2003	85	5/7/2003	5/7/2003	59
27 28	4/15/2003 4/30/2003		200	4/15/2003 4/30/2003	4/15/2003 4/30/2003	204	4/15/2003 4/30/2003	4/15/2003 4/30/2003	204 204	4/15/2003 4/30/2003		178 178
29	4/15/2003	4/17/2003	96	4/15/2003	4/17/2003	100	4/15/2003	4/17/2003	100	4/15/2003	4/17/2003	74
30	5/2/2003	5/2/2003	96	5/2/2003	5/2/2003	100	5/2/2003	5/2/2003	100	5/2/2003	5/2/2003	74
31	4/15/2003 5/7/2003		180	4/15/2003 5/7/2003	4/22/2003 5/7/2003	184 184	4/15/2003 5/7/2003	4/22/2003 5/7/2003	184 184	4/15/2003 5/7/2003		158 158
33	4/15/2003	4/22/2003	272	4/15/2003	4/22/2003	276	4/15/2003	4/22/2003	276	4/15/2003	4/22/2003 2	250
34	5/7/2003	5/7/2003		5/7/2003	5/7/2003	276	5/7/2003	5/7/2003	276	5/7/2003		250
35 36	4/15/2003 4/30/2003			4/15/2003 4/30/2003		463 463	4/15/2003 4/30/2003	4/15/2003 4/30/2003	463 463	4/15/2003 4/30/2003		437 437
37	4/15/2003	4/15/2003	295	4/15/2003	4/15/2003	299	4/15/2003	4/15/2003	299	4/15/2003	4/15/2003 2	273
38 39	4/30/2003 4/15/2003	4/30/2003	295 411	4/30/2003 4/15/2003	4/30/2003 4/22/2003	299 415	4/30/2003 4/15/2003	4/30/2003 4/22/2003	299 415	4/30/2003 4/15/2003		273 389
40	5/21/2003	5/21/2003	411	5/21/2003	5/21/2003	415	5/21/2003	5/21/2003	415	5/21/2003		389
41	4/15/2003	4/15/2003	292	4/15/2003	4/15/2003	296	4/15/2003	4/15/2003	296	4/15/2003	4/15/2003 2	270
42	4/30/2003 4/15/2003	4/30/2003 4/15/2003	292 369	4/30/2003 4/15/2003	4/30/2003 4/15/2003	296 373	4/30/2003 4/15/2003	4/30/2003 4/15/2003	296 373	4/30/2003 4/15/2003		270 347
44	4/30/2003			4/30/2003			4/30/2003	4/30/2003		4/30/2003		347
45	4/15/2003			4/15/2003		454	4/15/2003	4/15/2003		4/15/2003		428
46 47	4/30/2003 4/15/2003		450 243	4/30/2003 4/15/2003	4/30/2003 4/15/2003	454 247	4/30/2003 4/15/2003	4/30/2003 4/15/2003	454 247	4/30/2003 4/15/2003		428 221
48	4/30/2003			4/30/2003		247	4/30/2003	4/30/2003		4/30/2003		221
49	4/15/2003	4/15/2003		4/15/2003	4/15/2003	148	4/15/2003	4/15/2003	148	4/15/2003		122
50 51	4/15/2003 4/30/2003	4/15/2003 4/30/2003	426 426	4/15/2003 4/30/2003	4/15/2003 4/30/2003	430 430	4/15/2003 4/30/2003	4/15/2003 4/30/2003	430 430	4/15/2003 4/30/2003		404 404
52	4/15/2003			4/15/2003		420	4/15/2003	4/15/2003	420	4/15/2003		394
53	4/30/2003			4/30/2003	4/30/2003	420	4/30/2003	4/30/2003	420	4/30/2003		394
54 55	4/15/2003 5/29/2003	4/15/2003 5/29/2003		4/15/2003 5/29/2003	4/15/2003 5/29/2003	302	4/15/2003 5/29/2003	4/15/2003 5/29/2003	302 302	4/15/2003 5/29/2003		276 276
56	4/15/2003			4/15/2003		418	4/15/2003	4/15/2003	418	4/15/2003		392
57	4/30/2003	4/30/2003		4/30/2003	4/30/2003	418	4/30/2003	4/30/2003	418	4/30/2003		392
58 59	4/15/2003 5/12/2003	4/25/2003 5/12/2003	406	4/15/2003 5/12/2003	4/25/2003 5/12/2003	410	4/15/2003 5/12/2003	4/25/2003 5/12/2003	410 410	4/15/2003 5/12/2003		384 384
60	4/15/2003			4/15/2003			4/15/2003	4/15/2003		4/15/2003		394
61	4/30/2003			4/30/2003	4/30/2003	420	4/30/2003	4/30/2003		4/30/2003		394
62 63	4/15/2003 4/30/2003	4/15/2003 4/30/2003	288 288	4/15/2003 4/30/2003	4/15/2003 4/30/2003	292 292	4/15/2003 4/30/2003	4/15/2003 4/30/2003	292 292	4/15/2003 4/30/2003		266 266
64	4/15/2003	4/15/2003	141	4/15/2003	4/15/2003	145	4/15/2003	4/15/2003	145	4/15/2003	4/15/2003	119
65 66	4/30/2003	4/30/2003 4/15/2003	141 431	4/30/2003 4/15/2003	4/30/2003 4/15/2003	145 435	4/30/2003 4/15/2003	4/30/2003 4/15/2003	145 435	4/30/2003 4/15/2003		119 409
67	4/15/2003 4/30/2003			4/30/2003		435	4/15/2003 4/30/2003	4/30/2003	435	4/30/2003		409
68	4/15/2003	4/15/2003	434	4/15/2003	4/15/2003	438	4/15/2003	4/15/2003	438	4/15/2003	4/15/2003 4	412
69 70	4/30/2003 4/15/2003	4/30/2003 4/15/2003	434 302	4/30/2003 4/15/2003	4/30/2003 4/15/2003	438 306	4/30/2003 4/15/2003	4/30/2003 4/15/2003	438 306	4/30/2003 4/15/2003	4/45/2002	412 280
71	4/30/2003	4/30/2003	302	4/30/2003		306	4/30/2003	4/30/2003		4/30/2003	4/30/2003 2	280 280
72	4/15/2003	4/15/2003	404	4/15/2003	4/15/2003	408	4/15/2003	4/15/2003	408	4/15/2003	4/15/2003	382
73 74	4/30/2003 4/15/2003			4/30/2003 4/15/2003		408 428	4/30/2003 4/15/2003	4/30/2003 4/15/2003	408 428	4/30/2003 4/15/2003		382 402
75				4/30/2003			4/30/2003	4/30/2003		4/30/2003	4/30/2003 4	402
76		4/15/2003	355	4/15/2003	4/15/2003	359	4/15/2003	4/15/2003	359	4/15/2003	4/15/2003	333
77 79	4/30/2003 4/16/2003		355	4/30/2003 4/22/2003	4/30/2003 4/22/2003	359 0	4/30/2003 4/22/2003	4/30/2003 4/22/2003	359	4/30/2003 4/22/2003	4/30/2003 3 4/22/2003	333
80	4/17/2003	5/2/2003	0	4/23/2003	5/8/2003	0	4/23/2003	5/8/2003	0	4/23/2003	5/8/2003	-18
81	4/17/2003	4/17/2003	22	4/23/2003 4/24/2003	4/23/2003 4/25/2003	22	4/23/2003	4/23/2003	22	4/23/2003 4/24/2003	4/23/2003	-4
82 83	4/18/2003 5/5/2003	4/21/2003 5/19/2003	22 287	5/9/2003	5/23/2003	22 287	4/24/2003 5/9/2003	4/25/2003 5/23/2003	22 287	5/9/2003	4/25/2003 5/23/2003	- <u>4</u> 261
84	5/19/2003	5/19/2003	287	5/23/2003	5/23/2003	287	5/23/2003	5/23/2003		5/23/2003	5/23/2003	261
86	4/17/2003			4/23/2003	4/24/2003	26	4/23/2003	4/24/2003	0	4/23/2003	4/24/2003	0
87 88	5/5/2003 4/22/2003		22	5/9/2003 4/28/2003	5/20/2003 4/30/2003	8 22	5/9/2003 4/28/2003	5/20/2003 4/30/2003	8 22	5/9/2003 4/28/2003	5/20/2003 4/30/2003	-18 -4
90	5/5/2003		0	5/9/2003	5/15/2003	0	5/9/2003	5/15/2003	0	5/9/2003		-15
91	5/12/2003		0	5/16/2003	6/2/2003	0	5/16/2003	6/2/2003	0	4/25/2003		-11
92	5/27/2003	5/27/2003		6/2/2003	6/2/2003	0	6/2/2003	6/2/2003	0	4/25/2003	4/25/2003	0
93	5/28/2003	6/9/2003	241	6/3/2003 6/16/2003	6/13/2003 6/18/2003	0 241	6/3/2003	6/13/2003	241	4/25/2003 5/8/2003	5/7/2003	0
94 102	6/10/2003 6/10/2003			6/16/2003	7/4/2002	241 0	6/16/2003 6/16/2003	6/18/2003 7/1/2003		5/8/2003 5/8/2003	5/23/2003	241 0
105	6/10/2003	6/10/2003	273	6/16/2003 6/17/2003 6/18/2003	6/16/2003 6/17/2003 6/19/2003	273	6/16/2003	6/16/2003	273	5/8/2003 5/27/2003 5/28/2003 5/29/2003	5/27/2003 2	261
106	6/11/2003			6/17/2003	6/17/2003	273	6/17/2003	6/17/2003		5/28/2003 5/29/2003	5/28/2003 2 5/30/2003 2	261
107 108	6/12/2003 6/16/2003				6/19/2003	273 273	6/18/2003 6/20/2003	6/19/2003 6/24/2003		6/2/2003	6/4/2003	261 261
109	6/19/2003	6/19/2003	273	0/23/2003	6/25/2003	273	6/25/2003	6/25/2003	273	6/5/2003	6/5/2003 2	261
110 111	6/20/2003 6/23/2003			6/26/2003 6/27/2003	6/26/2003 6/27/2003	273 273	6/26/2003 6/27/2003	6/26/2003 6/27/2003		6/6/2003 6/9/2003	6/6/2003 2	261 261
	J. 2003	5,25,2003	, 5	J, Z, , Z003	0,21,2003	_, 3	5,21,2003	5,21,2003	-/3	J, J, 2003	U. U. Z. Z. Z. Z	-

Table 5-4. Section of the ATF database for the activities shown in Fig. 5-3, 5-4

ı		As-Planr	ned	1	1 [april 2	211		86 [April:	241	91 9	2Start [A	pril251
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR
1	О	0	0	0	0	0	0	0	0	0	0	0
3	273	136.5	136.5	277	138.5	138.5	277	138.5	138.5	251	138.5	112.5
<u>4</u> 5	273 87	136.5 43.5	136.5 43.5	277 91	138.5 45.5	138.5 45.5	277 91	138.5 45.5	138.5 45.5	251 65	138.5 45.5	112.5 19.5
6	87	43.5	43.5	91	45.5	45.5	91	45.5	45.5	65	45.5	19.5
7	200	100	100	204	102	102	204	102	102	178	102	76
8	200	100	100	204	102	102	204	102	102	178	102	76
9	103	51.5	51.5	107	53.5	53.5	107	53.5	53.5	81	53.5	27.5
10 11	103 202	51.5 101	51.5 101	107 206	53.5 103	53.5 103	107 206	53.5 103	53.5 103	81 180	53.5 103	27.5 77
12	202	101	101	206	103	103	206	103	103	180	103	77
13	75	37.5	37.5	79	39.5	39.5	79	39.5	39.5	53	39.5	13.5
14	75	37.5	37.5	79	39.5	39.5	79	39.5	39.5	53	39.5	13.5
15 16	130 130	65 65	65 65	134 134	67 67	67 67	134 134	67 67	67 67	108 108	67 67	41 41
17	225	112.5	112.5	229	114.5	114.5	229	114.5	114.5	203	114.5	88.5
18	225	112.5	112.5	229	114.5	114.5	229	114.5	114.5	203	114.5	88.5
19	144	72	72	148	74	74	148	74	74	122	74	48
20 21	144 97	72 48.5	72 48.5	148 101	74 50.5	74 50.5	148 101	74 50.5	74 50.5	122 75	74 50.5	48 24.5
22	97	48.5	48.5	101	50.5	50.5	101	50.5	50.5	75	50.5	24.5
23	430	215	215	434	217	217	434	217	217	408	217	191
24	430	215	215	434	217	217	434	217	217	408	217	191
25	81	40.5	40.5	85	42.5	42.5	85	42.5	42.5	59	42.5	16.5
26 27	200	40.5 100	40.5	85 204	42.5 102	42.5 102	85 204	42.5	42.5	59 178	42.5 102	16.5 76
28	200	100	100 100	204	102	102	204	102 102	102 102	178 178	102	76 76
29	96	48	48	100	50	50	100	50	50	74	50	24
30	96	48	48	100	50	50	100	50	50	74	50	24
31	180	90	90	184	92	92	184	92	92	158	92	66
32	180 272	90 136	90 136	184 276	92 138	92 138	184 276	92 138	92 138	158 250	92 138	66 112
34	272	136	136	276	138	138	276	138	138	250	138	112
35	459	229.5	229.5	463	231.5	231.5	463	231.5	231.5	437	231.5	205.5
36	459	229.5	229.5	463	231.5	231.5	463	231.5	231.5	437	231.5	205.5
37	295	147.5	147.5 147.5	299 299	149.5	149.5	299	149.5	149.5	273 273	149.5	123.5 123.5
38 39	295 411	147.5 205.5	205.5	415	149.5 207.5	149.5 207.5	299 415	149.5 207.5	149.5 207.5	389	149.5 207.5	181.5
40	411	205.5	205.5	415	207.5	207.5	415	207.5	207.5	389	207.5	181.5
41	292	146	146	296	148	148	296	148	148	270	148	122
42	292	146	146	296	148	148	296	148	148	270	148	122
43	369	184.5 184.5	184.5 184.5	373	186.5	186.5	373 373	186.5 186.5	186.5 186.5	347	186.5	160.5
45	369 450	225	225	373 454	186.5 227	186.5 227	454	227	227	347 428	186.5 227	160.5 201
46	450	225	225	454	227	227	454	227	227	428	227	201
47	243	121.5	121.5	247	123.5	123.5	247	123.5	123.5	221	123.5	97.5
48	243	121.5	121.5	247	123.5	123.5	247	123.5	123.5	221	123.5	97.5
49 50	144 426	72 213	72 213	148 430	74 215	74 215	148 430	74 215	74 215	122 404	74 215	48 189
51	426	213	213	430	215	215	430	215	215	404	215	189
52	416	208	208	420	210	210	420	210	210	394	210	184
53	416	208	208	420	210	210	420	210	210	394	210	184
54	298	149	149	302	151	151	302	151	151	276	151	125
55 56	298 414	149 207	149 207	302 418	151 209	151 209	302 418	151 209	151 209	276 392	151 209	125 183
57	414	207	207	418	209	209	418	209	209	392	209	183
58	406	203	203	410	205	205	410	205	205	384	205	179
59	406	203	203	410	205	205	410	205	205	384	205	179
60	416	208	208	420	210	210	420	210	210	394	210	184
61 62	416 288	208 144	208 144	420 292	210 146	210 146	420 292	210 146	210 146	394 266	210 146	184 120
63	288	144	144	292	146	146	292	146	146	266	146	120
64	141	70.5	70.5	145	72.5	72.5	145	72.5	72.5	119	72.5	46.5
65	141	70.5	70.5	145	72.5	72.5	145	72.5	72.5	119	72.5	46.5
66	431	215.5	215.5	435 435	217.5	217.5	435	217.5	217.5	409 409	217.5	191.5 191.5
67 68	431	215.5 217	215.5 217	435	217.5 219	217.5 219	435 438	217.5 219	217.5 219	412	217.5 219	191.5
69	434	217	217	438	219	219	438	219	219	412	219	193
70	302	151	151	306	153	153	306	153	153	280	153	127
71	302	151	151	306	153	153	306	153	153	280	153	127
72 73	404 404	202 202	202 202	408 408	204 204	204 204	408 408	204 204	204 204	382 382	204 204	178 178
74	424	212	212	428	214	214	428	214	214	402	214	188
75	424	212	212	428	214	214	428	214	214	402	214	188
76	355	177.5	177.5	359	179.5	179.5	359	179.5	179.5	333	179.5	153.5
77 79	355 0	177.5 0	177.5 0	359 0	179.5 0	179.5 0	359	179.5 0	179.5 0	333	179.5 0	153.5 0
80	0	0	0	0	0	0	0	0	0	-18	0	-18
81	22	11	11	22	11	11	22	11	11	-4	11	-15
82	22	11	11	22	11	11	22	11	11	-4	11	-15
83 84	287 287	143.5	143.5 143.5	287 287	143.5 143.5	143.5 143.5	287 287	143.5	143.5 143.5	261	143.5	117.5
86	26	143.5 13	143.5	26	143.5	143.5	0	143.5	0	261 0	143.5 0	117.5 0
87	8	4	4	8	4	4	8	4	4	-18	4	-22
88	22	11	11	22	11	11	22	11	11	-4	11	-15
90	0	0	0	0	0	0	0	0	0	-15	0	-15
91 92	0	0	0	0	0	0	0	0	0	-11 O	0	-11 O
93	0	0	0	0	0	0	0	0	0	0	0	0
94	241	120.5	120.5	241	120.5	120.5	241	120.5	120.5	241	120.5	120.5
102	0	0	0	0	0	0	0	0	0	0	0	0
		136.5	136.5	273	136.5	136.5	273	136.5	136.5	261	136.5	124.5 124.5
105	273		120 -	272	126 5							
105 106	273	136.5	136.5 136.5	273 273	136.5 136.5	136.5 136.5	273	136.5 136.5	136.5 136.5	261	136.5 136.5	
105			136.5 136.5 136.5	273 273 273	136.5 136.5 136.5	136.5 136.5 136.5	273 273 273	136.5 136.5 136.5	136.5 136.5 136.5	261 261	136.5 136.5 136.5	124.5 124.5
105 106 107 108 109	273 273 273 273	136.5 136.5 136.5 136.5	136.5 136.5 136.5	273 273 273	136.5 136.5 136.5	136.5 136.5 136.5	273 273 273	136.5 136.5 136.5	136.5 136.5 136.5	261 261 261	136.5 136.5 136.5	124.5 124.5 124.5
105 106 107 108	273 273 273	136.5 136.5 136.5	136.5 136.5	273 273	136.5 136.5	136.5 136.5	273 273	136.5 136.5	136.5 136.5	261 261	136.5 136.5	124.5 124.5

The next significant update was the completion of activity 82. This activity was initially scheduled to start on April 24, 2003 but was delayed. The early start of activities 91 and 92 as discussed in the previous case, has already made activity 82 critical. In fact, as can be seen in Tables 5-3 and 5-4, the total float on this activity as of April 25, 2003 is "-4" which means that it is already delayed by 4 days. Activity 82 is now completed on May 7, 2003. The status before the start of activity 82 is as shown in the figure 5-5.

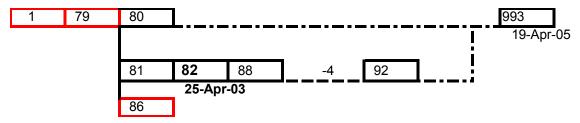


Figure 5-5. Project Status before start of activity 82

Activity 81 has a finish-to-start relationship with activity 82. Activity 82 is completed out-of-sequence before activity 81. This situation of out of sequence progress has been discussed in Section 3.5. Branch and Associates uses Microsoft Project® to maintain their project schedule. For out of sequence progress, this software adopts the concept of progress override (discussed in Section 3.5.2). The status is as shown in Figure 5-6.

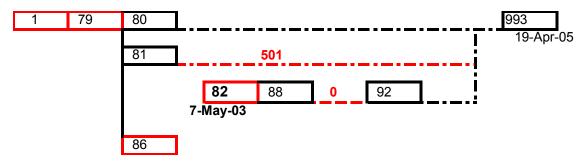


Figure 5-6. Status after completion of Activity 82

Since activity 82 was completed before activity 81, the start of activities 88, 92, and the rest of the activities in that path is no longer linked to the completion of activity 81. The finish to start link between activity 81 and 82 is broken and now activity 81 no longer has an immediate successor. Hence, it suddenly has a total float of 501 days. This is newly created float and is allocated equally between the owner and the contractor.

The rest of the updates in the June schedule were similar to the cases discussed above. For each case, the party responsible was determined and the respective party was held responsible for whatever effects an activity had on the following activities, if any. It is not feasible to show the variations in the Start-Finish database and the ATF databases for each activity. Hence, to explain how these changes are shown in the respective databases, a fragnet of activities is selected and their behavior is presented. Consider the fragnet shown in Figure 5-7.

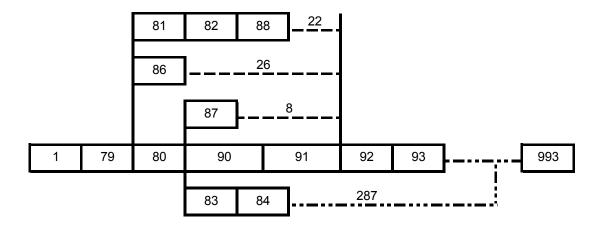


Figure 5-7. Section of the As-Planned Schedule

The section of the Start-Finish database representing the activities in Figure 5-7 is as shown in Table 5-5.

Table 5-5: Section of Start-Finish database for activities shown in Figure 5-7

ID	Start	Finish	TF
1	4/15/2003	4/15/2003	0
78	4/16/2003	5/19/2003	0
79	4/16/2003	4/16/2003	0
80	4/17/2003	5/2/2003	0
81	4/17/2003	4/17/2003	22
82	4/18/2003	4/21/2003	22
83	5/5/2003	5/19/2003	287
84	5/19/2003	5/19/2003	287
85	4/17/2003	5/14/2003	8
86	4/17/2003	4/18/2003	26
87	5/5/2003	5/14/2003	8
88	4/22/2003	4/24/2003	22
89	5/5/2003	7/29/2003	0
90	5/5/2003	5/9/2003	0
91	5/12/2003	5/27/2003	0
92	5/27/2003	5/27/2003	0
93	5/28/2003	6/9/2003	0
993	5/19/2005	5/19/2005	0

The corresponding ATF database is as shown in Table 5-6.

Table 5-6: ATF database for activities shown in Figure 5-7

ID	TF	Owner	KR
1	0	0	0
78	0		
79	0	0	0
80	0	0	0
81	22	11	11
82	22	11	11
83	287	143.5	143.5
84	287	143.5	143.5
85	8		
86	26	13	13
87	8	4	4
88	22	11	11
89	0		
90	0	0	0
91	0	0	0
92	0	0	0
93	0	0	0
993	0	0	0

The delay to activity 1 delays the start of all the activities. There is no change in the float values. The Start-Finish database is as shown in Table 5-7.

Table 5-7. Start-Finish database after Activity 1 is delayed

	As Pla	anned		1 [April 21]						
ID	Start	Finish	TF	Start	Finish	TF				
1	4/15/2003	4/15/2003	0	4/21/2003	4/21/2003	0				
78	4/16/2003	5/19/2003	0	4/22/2003	5/23/2003	0				
79	4/16/2003	4/16/2003	0	4/22/2003	4/22/2003	0				
80	4/17/2003	5/2/2003	0	4/23/2003	5/8/2003	0				
81	4/17/2003	4/17/2003	22	4/23/2003	4/23/2003	22				
82	4/18/2003	4/21/2003	22	4/24/2003	4/25/2003	22				
83	5/5/2003	5/19/2003	287	5/9/2003	5/23/2003	287				
84	5/19/2003	5/19/2003	287	5/23/2003	5/23/2003	287				
85	4/17/2003	5/14/2003	8	4/23/2003	5/20/2003	8				
86	4/17/2003	4/18/2003	26	4/23/2003	4/24/2003	26				
87	5/5/2003	5/14/2003	8	5/9/2003	5/20/2003	8				
88	4/22/2003	4/24/2003	22	4/28/2003	4/30/2003	22				
89	5/5/2003	7/29/2003	0	5/9/2003	8/4/2003	0				
90	5/5/2003	5/9/2003	0	5/9/2003	5/15/2003	0				
91	5/12/2003	5/27/2003	0	5/16/2003	6/2/2003	0				
92	5/27/2003	5/27/2003	0	6/2/2003	6/2/2003	0				
93	5/28/2003	6/9/2003	0	6/3/2003	6/13/2003	0				
993	5/19/2005	5/19/2005	0	5/25/2005	5/25/2005	0				

The numbers highlighted in red represent a change in dates with respect to the previous update. The next significant update was on April 25, 2003, when activities 91 and 92 were started before scheduled. The status is as shown in Figure 5-8.

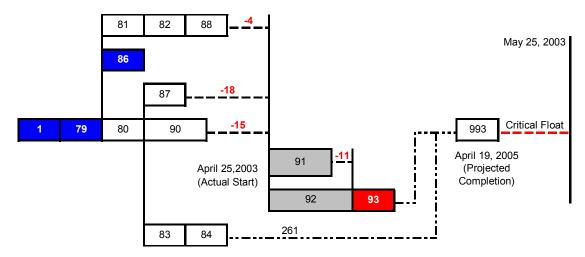


Figure 5-8. Status as of April 25, 2003

As discussed in Section 3.3, acceleration to a critical activity results in a reduction in total float for some of the activities in the schedule. In this case, all the activities except 83 and 84 have become critical due to this early start. "-4" for instance means that not only is the activity critical now, but it is also running late by 4 days. Nevertheless, acceleration always is for the overall benefit of the project. The project is now scheduled to complete on April 19, 2005, instead of May 25, 2005. As has been discussed in Section 3.3, in such a case the party responsible would be awarded critical float for the project overall. The Start-Finish database is as shown in Table 5-8.

Table 5-8: Start-Finish database as of April 25, 2003

	As	Planned		1 [Apr	il 21, 2003]		91,92Start [April 25, 20	03]
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
1	4/15/2003	4/15/2003	0	4/21/2003	4/21/2003	0	4/21/2003	4/21/2003	0
78	4/16/2003	5/19/2003	0	4/22/2003	5/23/2003	0	4/22/2003	5/23/2003	261
79	4/16/2003	4/16/2003	0	4/22/2003	4/22/2003	0	4/22/2003	4/22/2003	0
80	4/17/2003	5/2/2003	0	4/23/2003	5/8/2003	0	4/23/2003	5/8/2003	-18
81	4/17/2003	4/17/2003	22	4/23/2003	4/23/2003	22	4/23/2003	4/23/2003	-4
82	4/18/2003	4/21/2003	22	4/24/2003	4/25/2003	22	4/24/2003	4/25/2003	-4
83	5/5/2003	5/19/2003	287	5/9/2003	5/23/2003	287	5/9/2003	5/23/2003	261
84	5/19/2003	5/19/2003	287	5/23/2003	5/23/2003	287	5/23/2003	5/23/2003	261
85	4/17/2003	5/14/2003	8	4/23/2003	5/20/2003	8	4/23/2003	5/20/2003	-18
86	4/17/2003	4/18/2003	26	4/23/2003	4/24/2003	26	4/23/2003	4/24/2003	0
87	5/5/2003	5/14/2003	8	5/9/2003	5/20/2003	8	5/9/2003	5/20/2003	-18
88	4/22/2003	4/24/2003	22	4/28/2003	4/30/2003	22	4/28/2003	4/30/2003	-4
89	5/5/2003	7/29/2003	0	5/9/2003	8/4/2003	0	4/25/2003	6/26/2003	241
90	5/5/2003	5/9/2003	0	5/9/2003	5/15/2003	0	5/9/2003	5/15/2003	-15
91	5/12/2003	5/27/2003	0	5/16/2003	6/2/2003	0	4/25/2003	5/9/2003	-11
92	5/27/2003	5/27/2003	0	6/2/2003	6/2/2003	0	4/25/2003	4/25/2003	0
93	5/28/2003	6/9/2003	0	6/3/2003	6/13/2003	0	4/25/2003	5/7/2003	0
993	5/19/2005	5/19/2005	0	5/25/2005	5/25/2005	0	4/19/2005	4/19/2005	0

The corresponding ATF database is as shown in Table 5-9.

Table 5-9: ATF database as of April 25, 2003

	/	As Planr	ned	1 [/	April 21,	2003]	91,92Start [April 25, 2003]			
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	
1	0	0	0	0	0	0	0	0	0	
78	0			0			261			
79	0	0	0	0	0	0	0	0	0	
80	0	0	0	0	0	0	-18	0	-18	
81	22	11	11	22	11	11	-4	11	-15	
82	22	11	11	22	11	11	-4	11	-15	
83	287	143.5	143.5	287	143.5	143.5	261	143.5	117.5	
84	287	143.5	143.5	287	143.5	143.5	261	143.5	117.5	
85	8			8			-18			
86	26	13	13	26	13	13	0	0	0	
87	8	4	4	8	4	4	-18	4	-22	
88	22	11	11	22	11	11	-4	11	-15	
89	0			0			241			
90	0	0	0	0	0	0	-15	0	-15	
91	0	0	0	0	0	0	-11	0	-11	
92	0	0	0	0	0	0	0	0	0	
93	0	0	0	0	0	0	0	0	0	
993	0	0	0	0	0	0	0	0	0	

The numbers highlighted in **blue** in Table 5-7 indicate an increase in the float value whereas the numbers in **yellow** indicate a decrease in the float value. The contractor had accelerated the start of activities 91 and 92. This lead to a decrease in total float values for the respective activities shown in Table 5-7. The contractor is held responsible for this reduction and hence the negative values in the contractor (KR)

column. The owners ATF remain the same. Since this delay causes the projected completion date to be before schedule, the contractor is also awarded critical float for the project as shown in Figure 5-8. This critical float is not shown in the ATF database but is kept track of separately.

The next update is on April 29, 2003, when Activity 87 is started before schedule. The status is as shown in Figure 5-9.

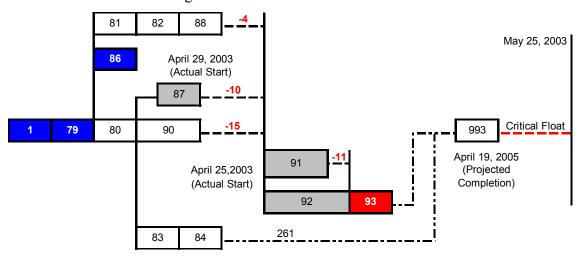


Figure 5-9. Status as of April 29, 2003

Table 5-10: Start-Finish Database as of April 29, 2003

_	As	Planned		1 [Apr	il 21, 2003]		91,92Start [/	April 25, 20	03]	87S	tart [April29)]
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
1	4/15/2003	4/15/2003	0	4/21/2003	4/21/2003	0	4/21/2003	4/21/2003	0	4/21/2003	4/21/2003	0
78	4/16/2003	5/19/2003	0	4/22/2003	5/23/2003	0	4/22/2003	5/23/2003	261	4/22/2003	5/23/2003	261
79	4/16/2003	4/16/2003	0	4/22/2003	4/22/2003	0	4/22/2003	4/22/2003	0	4/22/2003	4/22/2003	0
80	4/17/2003	5/2/2003	0	4/23/2003	5/8/2003	0	4/23/2003	5/8/2003	-18	4/23/2003	5/8/2003	-15
81	4/17/2003	4/17/2003	22	4/23/2003	4/23/2003	22	4/23/2003	4/23/2003	-4	4/23/2003	4/23/2003	-4
82	4/18/2003	4/21/2003	22	4/24/2003	4/25/2003	22	4/24/2003	4/25/2003	-4	4/24/2003	4/25/2003	-4
83	5/5/2003	5/19/2003	287	5/9/2003	5/23/2003	287	5/9/2003	5/23/2003	261	5/9/2003	5/23/2003	261
84	5/19/2003	5/19/2003	287	5/23/2003	5/23/2003	287	5/23/2003	5/23/2003	261	5/23/2003	5/23/2003	261
85	4/17/2003	5/14/2003	8		5/20/2003	8	4/23/2003	5/20/2003	-18	4/23/2003	5/8/2003	0
86	4/17/2003	4/18/2003	26	4/23/2003	4/24/2003	26	4/23/2003	4/24/2003	0	4/23/2003	4/24/2003	0
87	5/5/2003	5/14/2003	8	5/9/2003	5/20/2003	8	5/9/2003	5/20/2003	-18	4/29/2003	5/8/2003	-10
88	4/22/2003	4/24/2003	22	4/28/2003	4/30/2003	22	4/28/2003	4/30/2003	-4	4/28/2003	4/30/2003	-4
89	5/5/2003	7/29/2003	0	5/9/2003	8/4/2003	0	4/25/2003	6/26/2003	241	4/25/2003	6/26/2003	241
90	5/5/2003	5/9/2003	0	5/9/2003	5/15/2003	0	5/9/2003	5/15/2003	-15	5/9/2003	5/15/2003	-15
91	5/12/2003	5/27/2003	0	5/16/2003	6/2/2003	0	4/25/2003	5/9/2003	-11	4/25/2003	5/9/2003	-11
92	5/27/2003	5/27/2003	0	6/2/2003	6/2/2003	0	4/25/2003	4/25/2003	0	4/25/2003	4/25/2003	0
93	5/28/2003	6/9/2003	0	6/3/2003	6/13/2003	0	4/25/2003	5/7/2003	0	4/25/2003	5/7/2003	0
993	5/19/2005	5/19/2005	0	5/25/2005	5/25/2005	0	4/19/2005	4/19/2005	0	4/19/2005	4/19/2005	0

Table 5-11: Corresponding ATF database as of April 29, 2003

	-	As Planned			April 21,	2003]	91,92S	tart [April 2	5, 2003]				
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	
1	0	0	0	0	0	0	0	0	0	0	0	0	
78	0			0			261			261			
79	0	0	0	0	0	0	0	0	0	0	0	0	
80	0	0	0	0	0	0	-18	0	-18	-15	0	-15	
81	22	11	11	22	11	11	-4	11	-15	-4	11	-15	
82	22	11	11	22	11	11	-4	11	-15	-4	11	-15	
83	287	143.5	143.5	287	143.5	143.5	261	143.5	117.5	261	143.5	117.5	
84	287	143.5	143.5	287	143.5	143.5	261	143.5	117.5	261	143.5	117.5	
85	8			8			-18			0			
86	26	13	13	26	13	13	0	0	0	0	0	0	
87	8	4	4	8	4	4	-18	4	-22	-10	4	-14	
88	22	11	11	22	11	11	-4	11	-15	-4	11	-15	
89	0			0			241			241			
90	0	0	0	0	0	0	-15	0	-15	-15	0	-15	
91	0	0	0	0	0	0	-11	0	-11	-11	0	-11	
92	0	0	0	0	0	0	0	0	0	0	0	0	
93	0	0	0	0	0	0	0	0	0	0	0	0	
993	0	0	0	0	0	0	0	0	0	0	0	0	

Since, activity 87 is started before schedule its float increases from -18 to -10. This increase in float could be considered as newly created float and should have been divided equally between the owner and contractor as discussed in Section 3.3. Nevertheless, for the sake of simplicity, in case of negative floats it is assumed that any newly created float would be awarded to the party causing it. Hence, in this case the owner's ATF still remains the same even though there is an increase in total float for some associated activities.

The project schedule is updated in a similar fashion until all the activities have been addressed. Once all the activities have been addressed, the remaining activities that were supposed to start in this month, but were not started, are rescheduled to start after the project status date, i.e., June 24, 2003 in this case. The Start-Finish database showing the initial As-Planned schedule, status as of June 20, 2003, and the status after rescheduling the remaining activities is as shown in Appendix B. The corresponding ATF database is as shown in Appendix C.

Summarizing the major occurrences in the June update, the contractor accelerated the start of activities 91 and 92, which provided the contractor with a critical float of 36 days (instead of May 25, 2005 → April 19, 2005). The contractor then delayed the completion of activities 81 and 92, which delayed the project completion from April 19, 2005 to May 6, 2005. Hence, the contractor still has critical float of 36 - 17 = 19 days. The contractor then delayed the start of activities 93 and 114, which further delayed the project by 6 days. The project is scheduled to complete on May 12, 2005. The contractor still has a critical float of 19 - 6 = 13 days. The contractor then accelerates the completion of Activity 237, which results in a critical float of 17 days (project completion becomes April 25, 2005 instead of May 12, 2005). Hence, total critical float owned by the contractor is 13 + 17 = 30 days. The contractor then delays the start of activity 238, which delays the project completion to April 29, 2005. The contractor now has a critical float of 30 - 4 = 26 days. Until June 20, 2003, the project completion was scheduled as April 29, 2005. Once the remaining activities were rescheduled to start on June 24, 2003 (the project status date, i.e., date when the update was carried out), the completion is delayed and is now scheduled to May 9, 2005. The rescheduled activities are identified to be the responsibility of the contractor. Hence, the contractor loses 10 more days and is now left with 20 days of critical float.

The updated Start-Finish database and the ATF database are as shown in Appendix B and Appendix C, respectively. It is not feasible to show the individual updates and corresponding effects for each activity. Therefore, only the As-Planned status as of June 20, 2003 (just before rescheduling), and the status after rescheduling have been presented.

5.5 Insights and Chapter Conclusions

Chapter 4 presented a generic methodology to apply the concept of Pre-Allocation of Total Float. This procedure applies to any project schedule to monitor the ATF values for the corresponding parties. With a few modifications to incorporate the contractor's style of scheduling, this method can be used effectively as a bookkeeping procedure to implement the concept of Pre-Allocation of Total Float. Chapter 5 shows how this concept of Pre-Allocation of Total Float applies to the contractor – specific (in this case-Branch & Associates, Inc.) method of scheduling.

As can be seen from its application and results, this concept of Pre-Allocation of Total float respects the dynamic nature of construction projects and recognizes total float to be an asset to both parties. The concept makes sure that the parties realize that if they use float in a project, they can be exposed to potential damages. The benefits of this concept are summarized as follows:

- Pre allocates a specific amount of total float at the start of the project for each party. The parties are hence aware of the number of days of float they own at the start of the project and therefore can plan and implement their activities in a corresponding manner.
- Easier to allocate responsibilities to parties causing delays. This will reduce the chances of disputes and claims.
- Equitable and fair to the parties to the contract
- Necessitates need to monitor schedule closely, and hence facilitates better project management.

The bookkeeping procedures developed in this research facilitate the application of the concept of Pre-Allocation of Total Float. Even after developing the bookkeeping procedures and demonstrating how these can be used to apply the concept of Pre-Allocation of Total Float, the ease of implementation and the associated costs remains a concern.

Without computer support, the parties to the contract would need to assign one personnel to carry out the updating process manually. This process becomes very cumbersome and at times unmanageable when it comes to complex projects like the ACECHC project. The cost of keeping track of the project schedule manually would be quite large and hence this is not at all practical for the construction industry. Hence, implementing the concept of Pre-Allocation of Total Float under the current circumstances is not only difficult to implement, but can also be deemed as very expensive.

The only way this can be made feasible is by automating the process of updating the Start-Finish database and the ATF database. The solution to the above problem would be to develop an independent computer program or an add-in to existing scheduling software, which can filter out the required information on real time basis from the project schedule, update the Start-Finish database and the ATF database automatically and then keep track of the respective ATF values. The program can be customized to the needs of the user as well.

An easy implementation of the concept of Pre-Allocation of Total Float might save the industry from the constantly increasing costs of delay claims and court cases. Automating the process would not be too difficult and in the future would prove to be cost effective. This will definitely require some initial investment in developing a computer program. Once this is developed, the implementation of this concept will effectively be similar to carrying out regular updates.

Once this process of bookkeeping is automated, the application of the concept of Pre-Allocation of Total Float will pay for itself as the additional costs of disputes and delayed project completion can be avoided or minimized.

Chapter 6

Conclusions and Recommendations

Due to the ambiguous nature of its interpretation, float ownership has become one of the key areas of disputes between the parties in the contract. The concept of Pre-Allocation of Total Float (Prateapusanond 2003) is an effort towards a fair and equitable system for float allocation. This concept respects the dynamic nature of construction projects and recognizes total float to be an asset to both parties. Therefore, the participating parties share the risk of unforeseen circumstances equally. The concept pre-allocates a set amount of total float on the same non-critical path of activities to two contractual parties – the owner and the contractor. Under this plan, equal allocation of total float ensures that the owner and the contractor each own one-half of the total float available on any non-critical path activity of the project (Prateapusanond 2003).

This research aimed at testing the practicality of the concept of Pre-Allocation of Total Float." The concept appears to be very appealing on paper, but necessitates the need to monitor the schedule closely, keep track of the float used by each party, and the ATF owned by each party. Hence, the main objective of this research was to develop bookkeeping procedures that would facilitate keeping track of the ATF values for each activity and help us monitor the schedule closely. Scheduling can pose different situations and each situation poses a different challenge. Construction being a diversified industry, the nature of schedules varies with every project. Therefore, it is important to see whether the concept of Pre-Allocation of Total Float has the capability to handle the scheduling games and problems, which are very common to this industry.

6.1 Conclusions

The main aim of this thesis was to develop bookkeeping procedures that would facilitate monitoring a project schedule closely as well as help in keeping track of the allowable total float for the owner and the contractor. The objectives achieved by this research can be summarized as below:

- This research highlights the different scheduling problems that occur during complex scheduling which are not addressed to, by the concept of Pre-Allocation of Total Float. Specific assumptions have been made for each problem, which were discussed in detail in Chapter 3. The combination of the concept of Pre-Allocation of Total Float and these assumptions makes this concept robust in nature. The solutions are merely logical assumptions and hence can vary with a different perspective.
- The bookkeeping procedures required to apply the concept of Pre-Allocation of Total Float have been successfully developed. This research recommends the use of two databases; namely, the Start-Finish database and the Allowable Total Float (ATF) database. Again, with a different perspective some may also consider combining the two databases into one single database.
- The bookkeeping procedures used in this research can be used as an algorithm to develop a computer program.
- Demonstrates the applicability of the concept of Pre-Allocation of Total Float on a complex project schedule.

6.2 Areas of Future Research

The concept of Pre-Allocation of Total Float is an effort towards a more fair and equitable system of float allocation. The successful application of this concept requires the user to monitor the schedule closely and keep track of the ATF of each party for each activity in the schedule. The bookkeeping procedures developed can successfully be used to achieve this purpose, even for complex schedules. During the course of this research, several scheduling problems were encountered, which the concept of Pre-Allocation of Total Float did not address. To continue with developing bookkeeping procedures and to test its applicability on schedules, appropriate logical assumptions were made. These assumptions seem to address all the scheduling problems faced and ensured complete applicability of the concept of Pre-Allocation of Total Float to the ACECHC project schedule. Nevertheless, with different assumptions, other solutions are also possible. Therefore, one of the areas for future research would be to identify and develop generic solutions, which are based on concrete data so that their applicability cannot be questioned.

The concept of Pre-Allocation of Total Float recommends an equal allocation of total float amongst the parties. Total float can never be a fraction and therefore the ATF value should not be a fraction as well. In case an activity has a total float, which is an odd number, an equal allocation would mean that the ATF value would be a decimal value. This is against the scheduling norms followed by the industry and is not endorsed by the courts. The application of the concept of Pre-Allocation of Total Float is not possible unless this area is addressed. Future research is recommended to resolve this issue of fractional float values.

The bookkeeping procedures developed require the user to append the Start-Finish database and the ATF database for each activity updated. In the case of complex schedules like the ACECHC project schedule, which consists of over 900 activities, appending the database for each activity becomes very cumbersome. The concept of Pre-Allocating Total Float refutes the proximate cause concept, which is endorsed by the courts. The proximate cause concept considers the party that was the proximate cause for

the delay to be responsible for the delay. Hence, it would require a complete rethinking of an already accepted float ownership principle. The success of the concept of Pre-Allocating Total Float thus most importantly depends on its ease of implementation. If the cycle of operations as discussed in Section 5.3 were to be done for each activity manually, then it would be very difficult to implement the concept of Pre-Allocation of Total Float. This research thus recommends the need to develop a computer program, which could filter out the updated activities and the relevant data from the project schedule itself on real time basis. It could be either an independent program or an add-in for the existing scheduling packages. The development of such a program would make the process of keeping track of the schedule and ATF values more convenient. The program could also be customized to the needs of the parties using it.

During the application of Pre-Allocation of Total Float to the ACECHC project, a major assumption had to be made during the start of the study and that was to develop an As-Planned Schedule. The other aspect to be considered is that the concept was applied on an ongoing project. The actual implementation of this concept should begin during contract preparation, prior to the project's starting date (Prateapusanond 2003). Hence, it would be a good idea to simultaneously apply the current definition of total float as endorsed by the courts along with the new concept of Pre-Allocation of Total Float and compare the results. This would highlight the advantages and disadvantages of this new concept over the existing one.

If the required computer support and automated bookkeeping procedures are available, the advantages of implementing this concept are significant. Some of the owners and contractors in the industry who were asked for their opinion on this new concept were concerned only about its cost of implementation and ease. Both parties felt that pre-allocating the float at the start of the project and then monitoring this float carefully would solve most of the problems, which would have otherwise resulted in disputes. This concept will not eliminate all the claims and disputes in the industry but will provide a strong ground to judge these disputes and find amicable solutions. It can also serve as a decision making tool for most parties and in the future may be widely used by courts as well.

Overall, the areas of future research are summarized as:

- Developing criteria's for the various scheduling problems occurring during any construction project, which are not addressed to, by the concept of Pre-Allocation of Total Float.
- Solutions must be developed to resolve the issue of fractional total floats
- Develop computer programs or enhance existing scheduling packages to filter out the relevant data from project schedules to keep track of the project schedules and the ATF values closely.
- Develop criteria to determine the amount of float that must be allocated to each party.
- Applying the concept in conjunction with the current concept of float ownership on a project, right from the contract preparation stage

References

- Bubshait, Abdulaziz. A., and Cunningham, Michael. J., (1998) "Determining Schedule Impact: Working Practice" *Practice Periodical on Structural Design* and Construction, Vol. 3, No. 4, November, pp. 176-179
- Capuano, Don Jr. (1995). "Required CPM (Critical Path Method) for Lawsuits;
 Around the Corner?",
 http://www/wings.buffalo.edu/Complaw/CompLawPapers/capuano.html
- De La Garza, Jesus, Vorster, Michael C., and Parvin, Cordell M. (1991). "Total Float Traded as Commodity", *Journal of Construction Engineering and Management*, 117 (4), December, 716-727.
- Elazouni, A. M., and Metwally, F. G., (2000) "D-SUB: Decision Support System for Subcontracting Construction Works" *Journal of Construction Engineering and Management*, Vol. 126, No. 3, May/June 2000, pp. 191-200
- Finke, Michael. R., (1998) "Better Way to Estimate and Mitigate Disruption" Journal of Construction Engineering and Management, Vol. 124, No. 6, November/December, pp. 490-497
- Householder, Jerry L. and Rutland, Hulan E. (1990). "Who Owns Floats",
 Journal of Construction Engineering and Management, 116 (1), March, 130-133.
- Karumanasseri, G., and AbouRizk, S., (2002) "Decision Support System for Scheduling Steel Fabrication Projects" *Journal of Construction Engineering and Management*, Vol. 128, No. 5, September/October 2002, pp. 392-399

- Kyunghwan, Kim., and De La Garza, Jesus., (2003) "Phantom Float" Journal of Construction Engineering and Management, Vol 129, No. 5, September/October 2003, pp. 507-517
- Kraiem, Zaki I. and Diekmann, James E., (1987) "Concurrent delays in Construction Projects" *Journal of Construction Engineering and Management*, Vol 113, No. 4, December 1987, pp. 591-602
- Mellin, J. W., and Whiteaker, B., (1981). "Fencing a Bar Chart" J. of Construction Division, ASCE, 107, 497-507.
- Mulholland, B., and Christian, J., (1999). "Risk Assessment in Construction Schedules" *Journal of Construction Engineering and Management*, Vol. 125, No. 1, January/February 1999, pp. 8-15
- Ponce de Leon, Gui. (1986). "Float Ownership Specs Treatment", Cost
 Engineering, 28 (10), October, 12-15.
- Prateapusanond, A. (2003), "A Comprehensive Practice of Pre-Allocation of Total Float in the Application of A CPM-Based Construction Contract", *PhD Dissertation*, Construction Engineering and Management, Department of Civil Engineering, Virginia Polytechnic and State University, Blacksburg, Virginia, USA
- Schumacher, Lee. (1996). "An Integrated and Proactive Approach for Avoiding Delay Claims on Major Capital Projects", *Cost Engineering*, 38 (6), 37-39
- Wickwire, Jon M., Driscoll, Thomas J., and Hurlbut, Stephen B. (1991).
 "Construction Scheduling: Preparation, Liability, and Claims", Wiley Law Publication, New York, NY.

• Zouein, P. P., and Tommelein, I. D., (2001). "Improvement Algorithm for Limited Space Scheduling" *Journal of Construction Engineering and Management*, Vol. 127, No. 2, March/April 2001, pp. 116-124

Appendix A

The As-Planned Schedule

Table A-1: the Start-Finish database & the ATF database for the As-Planned Schedule

		Start-Fir	ATF C	ATF Database		
ID	Description	Start	Finish	TF	Owner	Contractor
1	Notice to Proceed	4/15/2003	4/15/2003	0	0	0
2	Submittals	4/15/2003	5/29/2003	75	37.5	37.5
3	02630 Storm Drainage Submittal	4/15/2003	4/24/2003	273	136.5	136.5
4	02630 Storm Drainage Delivery	5/9/2003	5/9/2003	273	136.5	136.5
5	03300 Reinforcing Steel Submittal Conf	4/15/2003	4/15/2003	87	43.5	43.5
6	03300 Reinforcing Steel Delivery Conf	4/30/2003	4/30/2003	87	43.5	43.5
7	03300 Reinforcing Steel Submittal Alumni	4/15/2003	4/15/2003	200	100	100
8	03300 Reinforcing Steel Delivery Alumni	4/30/2003	4/30/2003	200	100	100
9	03415 Precast Slab Submittal	4/15/2003	4/15/2003	103	51.5	51.5
10	03415 Precast Slab Delivery	4/30/2003	4/30/2003	103	51.5	51.5
	03450 Arch Precast Hotel Submittal	4/15/2003			101	101
	03450 Arch Precast Hotel Delivery	4/30/2003	4/30/2003		101	101
	04200 Masonry Submittal	4/15/2003	4/17/2003		37.5	37.5
	04200 Masonry Submittal Delivery	5/2/2003	5/2/2003	75	37.5	37.5
	05120 Structural Steel Conference Submittal	4/15/2003			65	65
	05120 Structural Steel Conference Delivery	4/30/2003			65	65
	05120 Structural Steel Alumni Submittal	4/15/2003	4/15/2003		112.5	112.5
	05120 Structural Steel Alumni Delivery	4/30/2003	4/30/2003		112.5	112.5
	05210/05300 Joist/Deck Submittal	4/15/2003		144	72	72
	05120/05300 Joist/Deck Delivery	5/8/2003	5/8/2003	144	72	72
	05500 Metal Fabrication Hotel Submittal	4/15/2003	5/1/2003	97	48.5	48.5
22		5/16/2003	5/16/2003	97	48.5	48.5
	06400 Arch Woodwork Submittal	4/15/2003			215	215
	06400 Arch Woodwork Submittal	4/30/2003		430	215	215
	07115 Waterproofing Submittal	4/15/2003		81	40.5	40.5
	07115 Waterproofing Delivery	5/7/2003	5/7/2003	81	40.5	40.5
	07530/07600 Roofing Submittal	4/15/2003	4/15/2003	200	100	100
	07530/07600 Roofing Submittal	4/30/2003			100	100
	08110 Door & Frame Submittal Hotel	4/15/2003		96	48	48
	08110 Door & Frame Submittal Hotel	5/2/2003	5/2/2003	96	48	48
	08110 Door & Frame Submittal Conf	4/15/2003	4/22/2003		90	90
	08110 Door & Frame Sabilitial Colli	5/7/2003	5/7/2003	180	90	90
	08110 Door & Frame Delivery Coni 08110 Door & Frame Submittal Alumni	4/15/2003			136	136
	08110 Door & Frame Submittal Alumni	5/7/2003	5/7/2003	272	136	136
	·	4/15/2003			229.5	229.5
	08410 Storefront Submittal	4/30/2003	4/15/2003 4/30/2003		229.5	229.5
	08410 Storefront Delivery 08520 Window Submittal	4/30/2003	4/30/2003		147.5	147.5
	08520 Window Submittal	4/30/2003			147.5	147.5
	08710 Finish Hardware Submittal	4/30/2003			205.5	205.5
		5/21/2003	4/22/2003 F/24/2003	411	205.5	
	08710 Finish Hardware Delivery	4/15/2003	5/21/2003			205.5
	09100/09250 Stud & Drywall Submittal	4/30/2003	4/15/2003		146 146	146 146
	09100/09250 Stud & Drywall Delivery		4/30/2003			
43	09680 Carpet Submittal	4/15/2003 4/30/2003			184.5 184.5	184.5
	09680 Carpet Delivery				225	184.5 225
	09900 Paint Submittal	4/15/2003		450	225	
40	09900 Paint Delivery	4/30/2003			121.5	225 121.5
	10650 Operable Partition Submittal	4/15/2003				
	10650 Operable Partition Delivery	4/30/2003			121.5	121.5
	11400 Food Service Rough In Submittal	4/15/2003			72	72
20	11400 Food Service Submittal	4/15/2003	4/15/2003	420	213	213

Table A-1: Continued [pg. 2 of 20]

Start		110	Start-Finish Database			ATF Database		
51 11400 Food Service Delivery 4/30/2003 4/30/2003 4/30/2003 4/30/2003 213 213 213 213 208 52 14240 Elevator Submittal 4/15/2003 4/15/2003 4/15/2003 4/15/2003 208 208 54 15500 Fire Protection Submittal 4/15/2003 4/15/2003 298 149 <td></td> <td></td> <td></td> <td></td> <td>\geq</td> <td>7</td> <td></td>					\geq	7		
F22 Is240 Elevator Submittal								
53 12420 Elevator Delivery								
54 15500 Fire Protection Submittal								
149								
56 15556 Boiler Submittal								
57 15568 Boiler Delivery	55	15500 Fire Protection Delivery	5/29/2003		298		149	
68 15685 Chiller Submittal 4/15/2003 4/5/2003 4/5 203 203 203 203 203 203 201 5/11 Cooling Tower Submittal 4/15/2003 5/12/2003 4/16 208			4/15/2003					
59 1568S Chiller Delivery	57	15556 Boiler Delivery	4/30/2003				207	
60 15711 Cooling Tower Submittal	58	15685 Chiller Submittal	4/15/2003	4/25/2003	406		203	
61 15711 Cooling Tower Delivery 4/30/2003 4/30/2003 288 1444 1444 1444 1444 1444 1444 1444 1444 1444 1444 1444 1444 1444 1444 1444 144 144 144 144 144 144 1430/2003 4/30/2003 4/30/2003 140 70.5	59	15685 Chiller Delivery	5/12/2003	5/12/2003	406	203	203	
E82 15830 Hydronic Terminal Units Submittal	60				416	208	208	
15830 Hydronic Terminal Units Delivery	61	15711 Cooling Tower Delivery	4/30/2003	4/30/2003	416	208	208	
64 15856 Rooftop AHU Submittal 4/15/2003 4/15/2003 141 70.5 70.5 65 15886 Rooftop AHU Delivery 4/30/2003 4/30/2003 141 70.5 70.5 66 16425 Switchboard Submittal 4/15/2003 4/15/2003 4/31 215.5 215.5 67 16425 Switchboard Delivery 4/30/2003 4/30/2003 4/31 215.5 215.5 68 16460 Transformers Delivery 4/30/2003 4/15/2003 343 217 217 70 16470 Panelboards Submittal 4/15/2003 4/15/2003 302 151 151 71 16470 Panelboards Delivery 4/30/2003 4/30/2003 302 151 151 72 16511 Luminaires Submittal 4/15/2003 4/15/2003 302 151 151 73 16511 Luminaires Delivery 4/30/2003 4/30/2003 404 202 202 74 16722 Fire Alarm System Submittal 4/15/2003 4/15/2003 4/15/2003 4/15/2003 4/15/2003	62	15830 Hydronic Terminal Units Submittal	4/15/2003	4/15/2003	288	144	144	
65 15886 Rooftop AHU Delivery 4/30/2003 4/30/2003 4/11 70.5 70.5 66 16425 Switchboard Submittal 4/15/2003 4/15/2003 4/31 215.5 215.5 67 16425 Switchboard Delivery 4/30/2003 4/30/2003 4/31 215.5 215.5 68 16460 Transformers Submittal 4/15/2003 4/30/2003 4/30/2003 4/31 217 217 69 16460 Transformers Delivery 4/30/2003 4/30/2003 4/30/2003 4/30/2003 4/30/2003 302 151 151 70 16470 Panelboards Submittal 4/15/2003 4/15/2003 302 151 151 71 16470 Panelboards Delivery 4/30/2003 4/30/2003 404 202 202 73 16511 Luminaires Delivery 4/30/2003 4/15/2003 404 202 202 74 16722 Fire Alarm System Submittal 4/15/2003 4/15/2003 4/20 202 75 16722 Fire Alarm System Submittal 4/15/2003 4/15/2003 <td>63</td> <td>15830 Hydronic Terminal Units Delivery</td> <td>4/30/2003</td> <td></td> <td>288</td> <td>144</td> <td>144</td>	63	15830 Hydronic Terminal Units Delivery	4/30/2003		288	144	144	
66 16425 Switchboard Submittal 4/15/2003 4/15/2003 431 215.5 215.5 67 16425 Switchboard Delivery 4/30/2003 4/30/2003 4/31 215.5 215.5 68 16460 Transformers Submittal 4/15/2003 4/30/2003 4/3 217 217 69 16460 Transformers Delivery 4/30/2003 4/30/2003 3/3 217 217 70 16470 Panelboards Submittal 4/15/2003 4/15/2003 302 151 151 71 16470 Panelboards Delivery 4/30/2003 4/30/2003 3/20/2003 105 151 71 16470 Panelboards Delivery 4/30/2003 4/30/2003 3/20/2003 104 202 202 73 16611 Luminaires Delivery 4/30/2003 4/30/2003 404 202 202 74 16722 Fire Alarm System Submittal 4/15/2003 4/15/2003 404 202 202 75 16722 Fire Alarm Delivery 4/30/2003 4/30/2003 424 212 212 76 17100 Auto Temp Controls Delivery 4/30/2003 4/15/2003 355 177.5 177.5 77 1710 Auto Temperature Controls Delivery 4/30/2003	64	15856 Rooftop AHU Submittal	4/15/2003	4/15/2003	141	70.5	70.5	
67 16425 Switchboard Delivery 4/30/2003 4/30/2003 431 215.5 215.5 68 16460 Transformers Submittal 4/15/2003 4/31/2003 434 217 217 70 16470 Panelboards Delivery 4/30/2003 4/31/2003 302 151 151 71 16470 Panelboards Delivery 4/30/2003 4/15/2003 302 151 151 72 16511 Luminaires Submittal 4/15/2003 4/15/2003 302 151 151 72 16511 Luminaires Delivery 4/30/2003 3/30/2003 302 202 202 74 16722 Fire Alarm System Submittal 4/15/2003 4/15/2003 404 202 202 75 16722 Fire Alarm Delivery 4/30/2003 4/30/2003 4/20 212 212 76 17100 Auto Temperature Controls Submittal 4/15/2003 4/15/2003 355 177.5 177.5 77 17100 Auto Temperature Controls Delivery 4/30/2003 4/30/2003 355 177.5 177.5 <	65	15886 Rooftop AHU Delivery	4/30/2003	4/30/2003	141	70.5	70.5	
68 16460 Transformers Submittal 4/15/2003 4/34 217 217 69 16460 Transformers Delivery 4/30/2003 4/30/2003 3/34 217 217 70 16470 Panelboards Submittal 4/15/2003 4/15/2003 302 151 151 71 16470 Panelboards Delivery 4/30/2003 4/30/2003 302 151 151 72 16511 Luminaires Submittal 4/15/2003 4/15/2003 404 202 202 74 16722 Fire Alarm System Submittal 4/15/2003 4/15/2003 404 202 202 75 16722 Fire Alarm Delivery 4/30/2003 4/30/2003 424 212 212 76 17100 Auto Temp Controls Submittal 4/15/2003 4/15/2003 355 177.5 177.5 78 MOBILIZATION 4/16/2003 3/19/2003 355 177.5 177.5 78 MOBILIZATION 4/16/2003 3/19/2003 0 0 0 80 Site Fence 4/17/200	66	16425 Switchboard Submittal	4/15/2003	4/15/2003	431	215.5	215.5	
68 16460 Transformers Submittal 4/15/2003 4/34 217 217 69 16460 Transformers Delivery 4/30/2003 4/30/2003 3/34 217 217 70 16470 Panelboards Submittal 4/15/2003 4/15/2003 302 151 151 71 16470 Panelboards Delivery 4/30/2003 4/30/2003 302 151 151 72 16511 Luminaires Submittal 4/15/2003 4/15/2003 404 202 202 74 16722 Fire Alarm System Submittal 4/15/2003 4/15/2003 404 202 202 75 16722 Fire Alarm Delivery 4/30/2003 4/30/2003 424 212 212 76 17100 Auto Temp Controls Submittal 4/15/2003 4/15/2003 355 177.5 177.5 78 MOBILIZATION 4/16/2003 3/19/2003 355 177.5 177.5 78 MOBILIZATION 4/16/2003 3/19/2003 0 0 0 80 Site Fence 4/17/200	67	16425 Switchboard Delivery	4/30/2003	4/30/2003	431	215.5	215.5	
69 16460 Transformers Delivery 4/30/2003 4/30/2003 4/34 217 217 70 16470 Panelboards Submittal 4/15/2003 4/15/2003 302 151 151 71 16470 Panelboards Delivery 4/30/2003 4/30/2003 302 151 151 72 16511 Luminaires Submittal 4/15/2003 4/15/2003 4/0 202 202 73 16511 Luminaires Delivery 4/30/2003 4/30/2003 404 202 202 74 16722 Fire Alarm System Submittal 4/15/2003 4/15/2003 4/15/2003 4/2 212	68	16460 Transformers Submittal		4/15/2003	434			
70	69	16460 Transformers Delivery	4/30/2003	4/30/2003	434	217	217	
71 16470 Panelboards Delivery				4/15/2003	302	151	151	
72 16511 Luminaires Submittal	71	16470 Panelboards Delivery				151	151	
73 16511 Luminaires Delivery			4/15/2003	4/15/2003	404		202	
74 16722 Fire Alarm System Submittal 4/15/2003 4/15/2003 4/24 212 212 75 16722 Fire Alarm Delivery 4/30/2003 4/30/2003 424 212 212 76 17100 Auto Temp Controls Submittal 4/15/2003 4/15/2003 355 177.5 177.5 77 17100 Auto Temperature Controls Delivery 4/30/2003 4/30/2003 355 177.5 177.5 78 MOBILIZATION 4/16/2003 4/16/2003 5/19/2003 0 0 0 79 Engineer Layout - Limits of Construction 4/16/2003 4/16/2003 0 0 0 80 Site Fence 4/17/2003 5/19/2003 0 0 0 81 Barricade at Walk Paths - Prices Fork & West Campus 4/17/2003 4/17/2003 22 11 11 82 Install Job Entrances 4/18/2003 4/17/2003 22 11 11 83 Grade & Stone Pad for Site Offices 5/5/2003 5/19/2003 287 143.5 143.5 84 Mobilize Trailers 5/19/2003 5/19/2003 2							202	
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83 Grade & Stone Pad for Site Offices 5/5/2003 5/19/2003 287 143.5 143.5 84 Mobilize Trailers 5/19/2003 5/19/2003 287 143.5 143.5 85 SITE DEMOLITION 4/17/2003 5/14/2003 8 4 4 86 Irrigation System 4/17/2003 4/18/2003 26 13 13 87 Trees / Shrubs 5/5/2003 5/14/2003 8 4 4 88 Signs 4/22/2003 4/24/2003 22 11 11 89 STORM MANAGEMENT / EROSION CONTROL 5/5/2003 7/29/2003 0 0 0 90 Silt Fence & Diversion Dikes 5/5/2003 5/9/2003 0 0 0 91 Temp Entrance at Road H 5/12/2003 5/27/2003 0 0 0 92 Sediment Trap No. 1 & 2 - Pond 5/27/2003 5/27/2003 0 0 0 93 Install Temporary Sediment Basin - No. 1 5/28/2003 6/9/2003 0 0 0 95 Install Temporary Sediment		i ·			22	11	11	
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89 STORM MANAGEMENT / EROSION CONTROL 5/5/2003 7/29/2003 0 0 90 Silt Fence & Diversion Dikes 5/5/2003 5/9/2003 0 0 0 91 Temp Entrance at Road H 5/12/2003 5/27/2003 0 0 0 92 Sediment Trap No. 1 & 2 - Pond 5/27/2003 5/27/2003 0 0 0 93 Install Temporary Sediment Basin - No. 1 5/28/2003 6/9/2003 0 0 0 94 Install Storm Line At TSB #1 6/10/2003 6/12/2003 241 120.5 120.5 95 Install Temporary Sediment Basin - No. 2 6/13/2003 6/17/2003 241 120.5 120.5 96 Construct Sediment Basin - #2 6/18/2003 7/16/2003 241 120.5 120.5 97 Install Storm Line at TSB #2 7/17/2003 7/23/2003 241 120.5 120.5 98 Topsoil & Seed Sediment Basin - 2 7/24/2003 7/29/2003 242 121 121 99					22	11	11	
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99 Excavate & Pour Footings at Retaining Wall 6/18/2003 6/20/2003 242 121 121								
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Table A-1: Continued [pg. 3 of 20]

		Start-Finish Database			ATF Database		
ID Description		Start	Finish	TF	Owner	Contractor	
	ne on Retaining Wall	6/26/2003		242	121	121	
102 Strip Topsoil 8		6/10/2003		0	0	0	
103 Rough Grade		7/18/2003			121	121	
104 TEMPORARY		6/10/2003		273	136.5	136.5	
	ning Lane - West Campus	6/10/2003			136.5	136.5	
	irning Lane - West Campus	6/11/2003		273	136.5	136.5	
	ipe Turning Lane - West Campus	6/12/2003		273	136.5	136.5	
	Turning Lane - West Campus	6/16/2003			136.5	136.5	
	Turning Lane - West Campus	6/19/2003	6/19/2003		136.5	136.5	
	at Turning Lane - West Campus	6/20/2003	6/20/2003	273	136.5	136.5	
	Walk at West Campus	6/23/2003	6/23/2003	273	136.5	136.5	
112 Install Guardra		7/29/2003	7/31/2003	276	138	138	
113 GRADE BUIL		6/13/2003	7/9/2003	0	0	0	
114 Grade Hotel A		6/13/2003		0	0	0	
115 Grade Confere		6/16/2003		0	0	0	
116 Grade Alumni		6/30/2003	7/9/2003	0	0	0	
117 GRADE SITE	Center Area	7/10/2003		235	117.5	117.5	
118 North Hotel Si	do of Building	7/10/2003	7/30/2003	235	117.5	117.5	
				235			
120 South Alumni	ce Front Side of Building	7/31/2003	8/6/2003 8/15/2003	235	117.5 117.5	117.5	
120 South Alumini		8/7/2003				117.5	
		8/7/2003	2/2/2004	242	121	121	
	round Electrical Service (NIC)	8/7/2003	8/13/2003	373	186.5	186.5	
123 Install Storm L		8/18/2003	8/29/2003	235	117.5	117.5	
124 Install Storm L		9/2/2003	9/11/2003	235	117.5	117.5	
125 Install Storm L		9/12/2003	10/9/2003	235	117.5	117.5	
	m Lines at North Parking	10/10/2003		235	117.5	117.5	
127 Install Sanitar			11/20/2003		117.5	117.5	
	ne B (under Road B)	9/12/2003			133	133	
	Line A (Hotel North)		10/22/2003		125.5	125.5	
130 Complete Wa			10/28/2003		125.5	125.5	
	Line C (Hotel South)		11/4/2003		125.5	125.5	
	orm Piping Connect to Hotel	11/21/2003		235	117.5	117.5	
	orm Piping Connect to Conf.	12/9/2003			117.5	117.5	
	orm Piping Connect to Alumni		12/18/2003		117.5	117.5	
	drant Along Prices Fork	11/5/2003			190.5	190.5	
136 Pour Light Pol	e Bases ting UG, C Road&North Parking	12/19/2003		235	117.5	117.5	
	<u> </u>	1/8/2004	1/15/2004		117.5	117.5	
	Site Lighting, B Road	1/16/2004		235	117.5	117.5	
	E Lighting, East of Conference	1/22/2004	2/2/2004	235	117.5	117.5	
	RT NORTH PARKING AREA	11/7/2003		121	60.5	60.5	
	orth Parking & at B, C Road	11/7/2003			136	136	
	UG Control Access - Road A/B	11/13/2003			136	136	
	Gutter at B,C Road & West 5 Lots	11/18/2003			136	136	
	Gutter at B,C Road & East 5 Lots	12/4/2003			136	136	
	lorth B,C Road & 10 Parking Lot	12/18/2003			136	136	
146 Install Fire Ro		7/27/2004	8/5/2004	72	36	36	
	RT EAST/SOUTH PARKING AREA	2/3/2004	3/4/2004	235	117.5	117.5	
148 Stone and Bas		2/3/2004	2/12/2004	235	117.5	117.5	
	ast Parking from D to G parking	2/13/2004	2/17/2004	235	117.5	117.5	
	East Parking from D to G parking	2/18/2004	2/24/2004	235	117.5	117.5	

Table A-1: Continued [pg. 4 of 20]

151 Base Stone East Parking from D to G parking 2/25/2004 3/2/2004 235 117.5 152 Base Pave Road from D to G 3/3/2004 3/4/2004 235 117.5 153 SERVICE YARD WORK 8/12/2004 10/14/2004 124 62 154 Install Footings Service Court Wall 8/12/2004 8/18/2004 124 62 155 Forn & Pour Service Court Wall 8/19/2004 9/1/2004 124 62 156 CMU Service Court Wall 9/2/2004 9/16/2004 124 62 157 Install Grease Traps & Lines 9/17/2004 9/21/2004 124 62 158 Install Removable Bollards in Service Road 9/22/2004 9/23/2004 124 62 159 Form & Pour Service Court Equipment Pads 9/24/2004 9/30/2004 124 62 160 Prep & Pour Concrete Service Yard Slab 10/1/2004 10/12/2004 124 62 161 Set Transformer 10/13/2004 10/14/2004 124 62 162 COMPLETE BASE PAVING 6/16/2004 8/27/2004 57 28.5 163 Fine Grade Road A from Prices Fork to E 6/24/2004 7/9/2004 57 28.5 <	Contractor 117.5 117.5 117.5 62 62 62 62 62 62 62 62 62 62 62 82 85 28.5 28.5
151 Base Stone East Parking from D to G parking 2/25/2004 3/2/2004 235 117.5 152 Base Pave Road from D to G 3/3/2004 3/4/2004 235 117.5 153 SERVICE YARD WORK 8/12/2004 10/14/2004 124 62 154 Install Footings Service Court Wall 8/12/2004 8/18/2004 124 62 155 Forn & Pour Service Court Wall 8/19/2004 9/1/2004 124 62 156 CMU Service Court Wall 9/2/2004 9/16/2004 124 62 157 Install Grease Traps & Lines 9/17/2004 9/21/2004 124 62 158 Install Removable Bollards in Service Road 9/22/2004 9/23/2004 124 62 159 Form & Pour Service Court Equipment Pads 9/24/2004 9/30/2004 124 62 160 Prep & Pour Concrete Service Yard Slab 10/1/2004 10/12/2004 124 62 161 Set Transformer 10/13/2004 10/14/2004 124 62 162 COMPLETE BASE PAVING 6/16/2004 8/27/2004 57 28.5 163 Fine Grade Road A from Prices Fork to E 6/16/2004 7/9/2004 57 28.5 <	117.5 117.5 62 62 62 62 62 62 62 62 62 62
152 Base Pave Road from D to G 3/3/2004 3/4/2004 235 117.5 153 SERVICE YARD WORK 8/12/2004 10/14/2004 124 62 154 Install Footings Service Court Wall 8/12/2004 8/18/2004 124 62 155 Forn & Pour Service Court Wall 8/19/2004 9/1/2004 124 62 156 CMU Service Court Wall 9/2/2004 9/16/2004 124 62 157 Install Grease Traps & Lines 9/17/2004 9/21/2004 124 62 158 Install Removable Bollards in Service Road 9/22/2004 9/23/2004 124 62 159 Form & Pour Service Court Equipment Pads 9/24/2004 9/30/2004 124 62 160 Prep & Pour Concrete Service Yard Slab 10/1/2004 10/12/2004 124 62 161 Set Transformer 10/13/2004 10/14/2004 124 62 162 COMPLETE BASE PAVING 6/16/2004 8/27/2004 57 28.5 163 Fine Grade Road A from Prices Fork to E 6/16/2004 6/23/2004 57 28.5 165 Base Stone Road A from Prices Fork to E 7/12/2004 7/19/2004 57 28.5	62 62 62 62 62 62 62 62 62 62 62 28.5 28.5 28.5
153 SERVICE YARD WORK 8/12/2004 10/14/2004 124 62 154 Install Footings Service Court Wall 8/12/2004 8/18/2004 124 62 155 Forn & Pour Service Court Wall 8/19/2004 9/1/2004 124 62 156 CMU Service Court Wall 9/2/2004 9/16/2004 124 62 157 Install Grease Traps & Lines 9/17/2004 9/21/2004 124 62 158 Install Removable Bollards in Service Road 9/22/2004 9/23/2004 124 62 159 Form & Pour Service Court Equipment Pads 9/24/2004 9/30/2004 124 62 160 Prep & Pour Concrete Service Yard Slab 10/1/2004 10/12/2004 124 62 161 Set Transformer 10/13/2004 10/14/2004 124 62 162 COMPLETE BASE PAVING 6/16/2004 8/27/2004 57 28.5 163 Fine Grade Road A from Prices Fork to E 6/16/2004 7/9/2004 57 28.5 165	62 62 62 62 62 62 62 62 62 62 28.5 28.5 28.5
154 Install Footings Service Court Wall 8/12/2004 8/18/2004 124 62 155 Forn & Pour Service Court Wall 8/19/2004 9/1/2004 124 62 156 CMU Service Court Wall 9/2/2004 9/16/2004 124 62 157 Install Grease Traps & Lines 9/17/2004 9/21/2004 124 62 158 Install Removable Bollards in Service Road 9/22/2004 9/23/2004 124 62 159 Form & Pour Service Court Equipment Pads 9/24/2004 9/30/2004 124 62 160 Prep & Pour Concrete Service Yard Slab 10/1/2004 10/12/2004 124 62 161 Set Transformer 10/13/2004 10/14/2004 124 62 162 COMPLETE BASE PAVING 6/16/2004 8/27/2004 57 28.5 163 Fine Grade Road A from Prices Fork to E 6/16/2004 6/23/2004 57 28.5 165 Base Stone Road A from Prices Fork to E 7/12/2004 7/19/2004 57 28.5 166 Base Pave Road A from Prices Fork to E 7/20/2004 7/21/2004 57 28.5 167 Fine Grade E Loop and Road D 7/22/2004 7/28/2004 57	62 62 62 62 62 62 62 62 28.5 28.5 28.5 28.5
155 Forn & Pour Service Court Wall 8/19/2004 9/1/2004 124 62 156 CMU Service Court Wall 9/2/2004 9/16/2004 124 62 157 Install Grease Traps & Lines 9/17/2004 9/21/2004 124 62 158 Install Removable Bollards in Service Road 9/22/2004 9/23/2004 124 62 159 Form & Pour Service Court Equipment Pads 9/24/2004 9/30/2004 124 62 160 Prep & Pour Concrete Service Yard Slab 10/11/2004 10/12/2004 124 62 161 Set Transformer 10/13/2004 10/14/2004 124 62 162 COMPLETE BASE PAVING 6/16/2004 8/27/2004 57 28.5 163 Fine Grade Road A from Prices Fork to E 6/16/2004 6/23/2004 57 28.5 165 Base Stone Road A from Prices Fork to E 7/12/2004 7/19/2004 57 28.5 166 Base Pave Road A from Prices Fork to E 7/20/2004 7/21/2004 57 28.5 167 Fine Grade E Loop and Road D 7/22/2004 7/28/2004 57 28.5	62 62 62 62 62 62 62 62 28.5 28.5 28.5 28.5
156 CMU Service Court Wall 9/2/2004 9/16/2004 124 62 157 Install Grease Traps & Lines 9/17/2004 9/21/2004 124 62 158 Install Removable Bollards in Service Road 9/22/2004 9/23/2004 124 62 159 Form & Pour Service Court Equipment Pads 9/24/2004 9/30/2004 124 62 160 Prep & Pour Concrete Service Yard Slab 10/1/2004 10/12/2004 124 62 161 Set Transformer 10/13/2004 10/14/2004 124 62 162 COMPLETE BASE PAVING 6/16/2004 8/27/2004 57 28.5 163 Fine Grade Road A from Prices Fork to E 6/16/2004 6/23/2004 57 28.5 164 Curb & Gutter Road A from Prices Fork to E 6/24/2004 7/9/2004 57 28.5 165 Base Stone Road A from Prices Fork to E 7/12/2004 7/19/2004 57 28.5 166 Base Pave Road A from Prices Fork to E 7/20/2004 7/21/2004 57 28.5 167 Fine Grade E Loop and Road D 7/22/2004 7/28/2004 57 28.5	62 62 62 62 62 28.5 28.5 28.5 28.5
157 Install Grease Traps & Lines 9/17/2004 9/21/2004 124 62 158 Install Removable Bollards in Service Road 9/22/2004 9/23/2004 124 62 159 Form & Pour Service Court Equipment Pads 9/24/2004 9/30/2004 124 62 160 Prep & Pour Concrete Service Yard Slab 10/1/2004 10/12/2004 124 62 161 Set Transformer 10/13/2004 10/14/2004 124 62 162 COMPLETE BASE PAVING 6/16/2004 8/27/2004 57 28.5 163 Fine Grade Road A from Prices Fork to E 6/16/2004 6/23/2004 57 28.5 164 Curb & Gutter Road A from Prices Fork to E 6/24/2004 7/9/2004 57 28.5 165 Base Stone Road A from Prices Fork to E 7/12/2004 7/19/2004 57 28.5 166 Base Pave Road A from Prices Fork to E 7/20/2004 7/21/2004 57 28.5 167 Fine Grade E Loop and Road D 7/22/2004 7/28/2004 57 28.5	62 62 62 62 62 28.5 28.5 28.5 28.5
158 Install Removable Bollards in Service Road 9/22/2004 9/23/2004 124 62 159 Form & Pour Service Court Equipment Pads 9/24/2004 9/30/2004 124 62 160 Prep & Pour Concrete Service Yard Slab 10/1/2004 10/12/2004 124 62 161 Set Transformer 10/13/2004 10/14/2004 124 62 162 COMPLETE BASE PAVING 6/16/2004 8/27/2004 57 28.5 163 Fine Grade Road A from Prices Fork to E 6/16/2004 6/23/2004 57 28.5 164 Curb & Gutter Road A from Prices Fork to E 6/24/2004 7/9/2004 57 28.5 165 Base Stone Road A from Prices Fork to E 7/12/2004 7/19/2004 57 28.5 166 Base Pave Road A from Prices Fork to E 7/20/2004 7/21/2004 57 28.5 167 Fine Grade E Loop and Road D 7/22/2004 7/28/2004 57 28.5	62 62 62 28.5 28.5 28.5 28.5
159 Form & Pour Service Court Equipment Pads 9/24/2004 9/30/2004 124 62 160 Prep & Pour Concrete Service Yard Slab 10/1/2004 10/12/2004 124 62 161 Set Transformer 10/13/2004 10/14/2004 124 62 162 COMPLETE BASE PAVING 6/16/2004 8/27/2004 57 28.5 163 Fine Grade Road A from Prices Fork to E 6/16/2004 6/23/2004 57 28.5 164 Curb & Gutter Road A from Prices Fork to E 6/24/2004 7/9/2004 57 28.5 165 Base Stone Road A from Prices Fork to E 7/12/2004 7/19/2004 57 28.5 166 Base Pave Road A from Prices Fork to E 7/20/2004 7/21/2004 57 28.5 167 Fine Grade E Loop and Road D 7/22/2004 7/28/2004 57 28.5	62 62 28.5 28.5 28.5 28.5
160 Prep & Pour Concrete Service Yard Slab 10/1/2004 10/12/2004 124 62 161 Set Transformer 10/13/2004 10/14/2004 124 62 162 COMPLETE BASE PAVING 6/16/2004 8/27/2004 57 28.5 163 Fine Grade Road A from Prices Fork to E 6/16/2004 6/23/2004 57 28.5 164 Curb & Gutter Road A from Prices Fork to E 6/24/2004 7/9/2004 57 28.5 165 Base Stone Road A from Prices Fork to E 7/12/2004 7/19/2004 57 28.5 166 Base Pave Road A from Prices Fork to E 7/20/2004 7/21/2004 57 28.5 167 Fine Grade E Loop and Road D 7/22/2004 7/28/2004 57 28.5	62 28.5 28.5 28.5 28.5
161 Set Transformer 10/13/2004 10/14/2004 124 62 162 COMPLETE BASE PAVING 6/16/2004 8/27/2004 57 28.5 163 Fine Grade Road A from Prices Fork to E 6/16/2004 6/23/2004 57 28.5 164 Curb & Gutter Road A from Prices Fork to E 6/24/2004 7/9/2004 57 28.5 165 Base Stone Road A from Prices Fork to E 7/12/2004 7/19/2004 57 28.5 166 Base Pave Road A from Prices Fork to E 7/20/2004 7/21/2004 57 28.5 167 Fine Grade E Loop and Road D 7/22/2004 7/28/2004 57 28.5	28.5 28.5 28.5 28.5
162 COMPLETE BASE PAVING 6/16/2004 8/27/2004 57 28.5 163 Fine Grade Road A from Prices Fork to E 6/16/2004 6/23/2004 57 28.5 164 Curb & Gutter Road A from Prices Fork to E 6/24/2004 7/9/2004 57 28.5 165 Base Stone Road A from Prices Fork to E 7/12/2004 7/19/2004 57 28.5 166 Base Pave Road A from Prices Fork to E 7/20/2004 7/21/2004 57 28.5 167 Fine Grade E Loop and Road D 7/22/2004 7/28/2004 57 28.5	28.5 28.5 28.5 28.5
163 Fine Grade Road A from Prices Fork to E 6/16/2004 6/23/2004 57 28.5 164 Curb & Gutter Road A from Prices Fork to E 6/24/2004 7/9/2004 57 28.5 165 Base Stone Road A from Prices Fork to E 7/12/2004 7/19/2004 57 28.5 166 Base Pave Road A from Prices Fork to E 7/20/2004 7/21/2004 57 28.5 167 Fine Grade E Loop and Road D 7/22/2004 7/28/2004 57 28.5	28.5 28.5 28.5
164 Curb & Gutter Road A from Prices Fork to E 6/24/2004 7/9/2004 57 28.5 165 Base Stone Road A from Prices Fork to E 7/12/2004 7/19/2004 57 28.5 166 Base Pave Road A from Prices Fork to E 7/20/2004 7/21/2004 57 28.5 167 Fine Grade E Loop and Road D 7/22/2004 7/28/2004 57 28.5	28.5 28.5
165 Base Stone Road A from Prices Fork to E 7/12/2004 7/19/2004 57 28.5 166 Base Pave Road A from Prices Fork to E 7/20/2004 7/21/2004 57 28.5 167 Fine Grade E Loop and Road D 7/22/2004 7/28/2004 57 28.5	28.5
166 Base Pave Road A from Prices Fork to E 7/20/2004 7/21/2004 57 28.5 167 Fine Grade E Loop and Road D 7/22/2004 7/28/2004 57 28.5	
167 Fine Grade E Loop and Road D 7/22/2004 7/28/2004 57 28.5	28.5
	28.5
168 C & G Road E Loop and Road D 7/29/2004 8/11/2004 57 28.5	28.5
169 Base Stone E Loop and Road D 8/12/2004 8/20/2004 57 28.5	28.5
170 Base Pave E Loop and Road D 8/23/2004 8/24/2004 57 28.5	28.5
171 Install Road H Stone Parking Spaces 8/25/2004 8/27/2004 100 50	50
172 PRICES FORK ENTRANCE 7/22/2004 8/19/2004 188 94	94
173 Demolition 7/22/2004 7/26/2004 188 94	94
174 Install New Traffic Signals 7/27/2004 7/30/2004 188 94	94
175 Install Curb & Gutter 8/2/2004 8/6/2004 188 94	94
176 Install New Paving 8/9/2004 8/11/2004 188 94	94
177 Install New Sidewalk 8/12/2004 8/17/2004 188 94	94
178 Fine Grade & Seed 8/18/2004 8/19/2004 188 94	94
179 HOTEL CANOPY & ENTRANCE 8/25/2004 11/3/2004 135 67.5	67.5
180 Dig & Pour Canopy Foundations 8/25/2004 8/30/2004 135 67.5	67.5
181 Erect Canopy Structure 8/31/2004 9/10/2004 135 67.5	67.5
182 Complete Canopy Column Veneer 9/13/2004 9/22/2004 135 67.5	67.5
183 Install Hotel Entrance Roofing 9/23/2004 9/30/2004 135 67.5	67.5
184 Pour Concrete Strips at Hotel Entrance 10/1/2004 10/7/2004 135 67.5	67.5
185 Install Paver Base at Hotel Entrance 10/8/2004 10/14/2004 135 67.5	67.5
186 Install Hotel Entrance Bollards 10/15/2004 10/18/2004 135 67.5	67.5
187 Install Hotel Entrance Pavers 10/19/2004 11/1/2004 135 67.5	67.5
188 Install Site Furniture at Hotel Entrance 11/2/2004 11/3/2004 135 67.5	67.5
189 ALUMNI FOUNTAIN 11/23/2004 3/1/2005 40 20	20
190 Install UG Plumbing to Fountain 11/23/2004 12/1/2004 40 20	20
191 Install UG Electrical to Fountain 12/2/2004 12/3/2004 40 20	20
192 Install Fountain Concrete 12/6/2004 12/17/2004 40 20	20
193 Install Fountain Hokie Stone 12/20/2004 1/4/2005 40 20	20
194 Install Pumps & Equipment 1/5/2005 1/11/2005 40 20	20
195 Install Base Under Pavers 1/12/2005 1/25/2005 40 20	20
196 Install Sidewalk Pavers 1/26/2005 2/8/2005 40 20	20
197 Install Fountain Pavers 2/9/2005 3/1/2005 40 20	20
198 ALUMNI TERRACE 1/5/2005 3/22/2005 40 20	20
199 Construct Retaining Wall 1/5/2005 1/11/2005 65 32.5	32.5
200 Install Base Under Terrace Pavers 1/26/2005 2/8/2005 55 27.5	27.5

Table A-1: Continued [pg. 5 of 20]

		Start-Finish Database			ATF Database		
ID	Description	Start	Finish	TF	Owner	Contractor	
	Install Terrace Pavers	3/2/2005	3/22/2005	40	20	20	
	COMPLETE SITEWORK	8/25/2004	2/25/2005	57	28.5	28.5	
	Install Flag Pole Bases at Road A / E Loop	8/25/2004			28.5	28.5	
	Spread Topsoil Next To Building	8/27/2004	9/2/2004	57	28.5	28.5	
	Install Sidewalk North Parking to D	9/3/2004	9/24/2004	57	28.5	28.5	
	Install West Hotel Pavers	9/27/2004	9/30/2004	57	28.5	28.5	
	Install Sidewalk at Hotel Front	10/1/2004			28.5	28.5	
	Install Mulch Walk		10/14/2004		28.5	28.5	
	Install Sidewalk Between Conf & D Road		11/1/2004	57	28.5	28.5	
	Install Alumni Entrance Sidewalk from WCD	11/2/2004		57	28.5	28.5	
	Install Sidewalk at H road	11/9/2004			28.5	28.5	
	Install Sidewalk at Conference West Side		11/13/2004		28.5	28.5	
					28.5		
	Install Sidewalk Around Alumni		12/13/2004	-		28.5	
	Install Road H Pavilions	8/30/2004		111	55.5	55.5	
	Spread Topsoil North Parking Area		10/28/2004		38.5	38.5	
	Spread Topsoil East Side Building		11/4/2004	77	38.5	38.5	
	Spread Topsoil West Side of Building		12/14/2004		28.5	28.5	
	Spread Topsoil South of Building		12/22/2004		28.5	28.5	
	Install Site Light Poles & Fixtures		12/22/2004	-	28.5	28.5	
	Seed at A from Prices Fork to Loop of Road E	12/23/2004		57	28.5	28.5	
	Seed at E Loop & Island to Road D	1/10/2005	1/14/2005	57	28.5	28.5	
	Seed East of Conference	1/17/2005	1/20/2005	57	28.5	28.5	
	Seed West of Conference	1/21/2005	1/28/2005	-	28.5	28.5	
	Seed South of Alumni	1/31/2005	2/4/2005	57	28.5	28.5	
	Install Landscapeing at Sediment Basin - 2	12/23/2004			39	39	
	Install Landscaping	12/23/2004		76	38	38	
	Install Site Signage	1/24/2005		76	38	38	
	Remove Erosion Control Devices	2/24/2005	2/25/2005	57	28.5	28.5	
	FINAL ASPHALT PAVING	1/17/2005	2/7/2005	71	35.5	35.5	
	Surface Asphalt Road A & E Loop	1/17/2005	1/18/2005	71	35.5	35.5	
	Surface Asphalt North Parking, Road B to D, & C	1/19/2005	1/21/2005	71	35.5	35.5	
	Surface Asphalt Road D	1/24/2005	1/25/2005	71	35.5	35.5	
	Surface Asphalt Road B, F, G	1/26/2005	1/28/2005	71	35.5	35.5	
	Surface Asphalt Road H	1/31/2005	1/31/2005	-	35.5	35.5	
	Install Stripping	2/1/2005	2/7/2005	71	35.5	35.5	
	BUILDING FOUNDATION - WEST HOTEL	7/8/2003	10/30/2003		0	0	
	Establish Major Axis Lines- WH	7/10/2003	7/10/2003	0	0	0	
238	Layout Footings - WH	7/8/2003	8/6/2003	0	0	0	
	Excavate Footings - WH	8/1/2003	8/26/2003	0	0	0	
	Layout / Drill Elevator Jack Hole - WH	8/7/2003	9/2/2003	8	4	4	
	Form and Place Footings - WH	8/14/2003	9/8/2003	0	0	0	
	Form & Place Concrete Wall - WH	8/26/2003	9/5/2003	0	0	0	
	Waterproof Walls - WH	9/8/2003	9/9/2003	0	0	0	
244	CMU to Finish Floor - WH	9/3/2003	9/10/2003	1	0.5	0.5	
	Backfill & Compact - WH	9/10/2003	9/16/2003	0	0	0	
	U.G. Plumbing - WH	9/11/2003	9/26/2003	0	0	0	
	Slab Stone Base - WH	9/25/2003	9/30/2003	0	0	0	
	U.G. Electrical - WH	9/30/2003	10/3/2003	0	0	0	
249	Termite Treatment - WH	10/6/2003	10/6/2003	0	0	0	
250	Prep and Place Slab-on-Grade - WH	10/7/2003	10/8/2003	0	0	0	

Table A-1: Continued [pg. 6 of 20]

	Start-Finish Database			ATF D	ATF Database	
ID Description	Start	Finish	TF	Owner	Contractor	
251 Set Tube Steel / Misc at Windows - WH		10/20/2003		0	0	
252 1st FI Set Hollow Metal Frames - WH		10/14/2003		0.5	0.5	
253 CMU to 2nd Floor - WH		10/30/2003		0	0	
254 BUILDING FOUNDATION - EAST HOTEL		11/12/2003	6	3	3	
255 Establish Major Axis Lines - EH		7/14/2003	37	18.5	18.5	
256 Layout Footings - EH	8/14/2003		15	7.5	7.5	
257 Excavate Footings - EH	8/15/2003		19	9.5	9.5	
258 Layout / Drill Elevator Jack Holes - EH	9/3/2003	9/8/2003	8	4	4	
259 Form and Place Footings - EH	8/15/2003		19	9.5	9.5	
260 Form and Place Concrete Walls - EH	9/9/2003	9/22/2003	8	4	4	
261 Waterproof Walls - EH	9/23/2003		8	4	4	
262 CMU to Finish Floor - EH	8/27/2003		24	12	12	
263 Backfill & Compact - EH		9/29/2003	8	4	4	
264 U.G. Plumbing - EH		10/20/2003	6	3	3	
265 Slab Stone Base - EH		10/20/2003	6	3	3	
266 U.G. Electrical - EH		10/23/2003	6	3	3	
267 Termite Treatment - EH		10/24/2003		3	3	
268 Prep and Place Slab-on-Grade - EH		10/27/2003		3	3	
269 Set Tube Steel / Misc at Windows - EH		11/3/2003	9	4.5	4.5	
270 1st FI Set Hollow Metal Frames - EH		10/30/2003	6	3	3	
271 CMU to 2nd Floor - EH		11/12/2003		3	3	
272 STRUCTURE - WEST HOTEL - 2nd FLOOR		12/2/2003	0	0	0	
273 2nd Fl Set / Grout Concrete Planks - WH		11/6/2003	0	0	0	
274 2nd FI Set Hollow Metal Frames - WH		11/12/2003	0	0	0	
275 2nd FI Lay CMU to 3rd Floor - WH	11/10/2003		0	0	0	
276 2nd FI Set Tube & Metals at Windows - WH		11/25/2003	3	1.5	1.5	
277 2nd FI Set Lintels - WH		11/25/2003		1.5	1.5	
278 STRUCTURE - EAST HOTEL - 2nd FLOOR	11/13/2003		6	3	3	
279 2nd Fl Set / Grout Concrete Planks - EH		11/17/2003	6	3	3	
280 2nd Fl Set Hollow Metal Frames - EH		11/20/2003	6	3	3	
281 2nd FI Lay CMU to 3rd Floor - EH	11/21/2003		6	3	3	
282 2nd Fl Set Tube & Metals at Windows - EH		12/3/2003	9	4.5	4.5	
283 2nd FI Set Lintels - EH	12/1/2003		9	4.5	4.5	
284 STRUCTURE - WEST HOTEL - 3rd FLOOR	12/3/2003		0	0	0	
285 3rd Fl Set / Grout Concrete Planks - WH		12/9/2003	0	0	0	
286 3rd Fl Set Hollow Metal Frames - WH		12/15/2003	0	0	0	
287 3rd Fl Lay CMU to 4th Floor - WH	12/11/2003		0	0	0	
288 3rd Fl Set Tube & Metals at Windows - WH		12/31/2003	3	1.5	1.5	
289 3rd Fl Set Lintels - WH		12/31/2003	3	1.5	1.5	
290 STRUCTURE - EAST HOTEL - 3rd FLOOR	12/10/2003		5	2.5	2.5	
291 3rd Fl Set / Grout Concrete Planks - EH		12/12/2003	5	2.5	2.5	
292 3rd Fl Set Hollow Metal Frames - EH		12/17/2003		2.5	2.5	
293 3rd Fl Lay CMU to 4th Floor - EH	12/18/2003		5	2.5	2.5	
294 3rd Fl Set Tube & Metals at Windows - EH		12/31/2003	8	4	4	
295 3rd FI Set Lintels - EH	12/29/2003		8	4	4	
296 STRUCTURE - WEST HOTEL - 4th FLOOR	1/8/2004	2/5/2004	0	0	0	
297 4th FI Set / Grout Concrete Planks - WH	1/8/2004	1/14/2004	0	0	0	
298 4th FI Set Hollow Metal Frames - WH	1/15/2004	1/20/2004	3	1.5	1.5	
299 4th FI Lay CMU to Roof - WH	1/16/2004	2/5/2004	3	1.5	1.5	
300 4th FI Set Tube & Metals at Windows - WH	1/22/2004	2/2/2004	3	1.5	1.5	

Table A-1: Continued [pg. 7 of 20]

D Description		Start-Fir	ATF Database			
101 14h Fl. Set Lintels - WH	ID Description	Start	Finish	TF	Owner	Contractor
302 STRUCTURE - EAST HOTEL - 4th FLOOR				_		
303 4th FI Set Grout Concrete Planks - EH				_		
305						
305 4th FI Lay CMU to Roof - EH				0		
306 4th FI Set Tube & Metals at Windows - EH				0		0
107 4th FI Set Lintels - EH				3		1.5
308 SEL Lobby Structural Steel/Dock - EH						
STRUCTURE - HOTEL ROOF LEVEL 26/2004 3/11/2004 0 0 0 0 0 0 0 0 0		1/20/2004	1/29/2004			
Stock Grout Concrete Planks - H						
1311 Form & Place CRU #3 Slab on Roof - H 2/20/2004 2/24/2004 0 0 0 0 0 0 0 312 Set CRU #3 Mech Eqpt On Roof - H 2/25/2004 3/1/2004 0 0 0 0 0 0 0 0 0				0	0	0
Set CRU #3 Mech Eqpt On Roof - H 2/25/2004 3/1/2004 0 0 0 0 0 313 Roof Build Parapet Walls - H 3/2/2004 3/1/2004 0 0 0 0 0 0 0 315 Wood Blocking - WH 3/1/2004 3/17/2004 0 0 0 0 0 316 Coping / Misc. Metal Flashing - WH 3/1/2004 3/17/2004 0 0 0 0 0 0 317 Roof Insulation - WH 3/18/2004 3/2/2004 0 0 0 0 0 0 317 Roof Insulation - WH 3/25/2004 3/3/1/2004 5 2.5 2.5 2.5 318 Roof Membrane - WH 4/1/2004 4/17/2004 5 2.5 2.5 2.5 318 Roof Scuppers - WH 4/1/2004 4/17/2004 5 2.5 2.5 2.5 318 Roof Scuppers - WH 4/1/2004 4/17/2004 5 2.5 2.5 320 Gutter and Downspout - WH 5/14/2004 5/14/20						
1313 Roof Build Parapet Walls - H 3/2/2004 3/11/2004 0 0 0 0 0 3/14 ROOFING - WEST HOTEL 3/12/2004 3/17/2004 0 0 0 0 0 3/15 Wood Blocking - WH 3/18/2004 3/17/2004 0 0 0 0 0 0 3/16 Coping / Misc. Metal Flashing - WH 3/18/2004 3/24/2004 0 0 0 0 0 0 3/17 Roof Insulation - WH 3/25/2004 3/31/2004 5 2.5 2.5 2.5 2.5 3/18 Roof Membrane - WH 4/1/2004 4/7/2004 5 2.5 2.5 2.5 3/19 Roof Scuppers - WH 4/8/2004 4/7/2004 5/25 2.5 2.5 3/19 Roof Scuppers - WH 4/8/2004 4/15/2004 250 125 125 3/20 3/21 ROOFING - EAST HOTEL 1/30/2004 5/13/2004 250 125 12.5 3/21 ROOFING - EAST HOTEL 1/30/2004 5/13/2004 25 12.5 12.5 3/21 ROOFING - EAST HOTEL 1/30/2004 2/12/200				0	0	0
314 ROOFING - WÉST HOTEL 3/12/2004 5/27/2004 0 0 0 0 0 315 Wood Blocking - WH 3/12/2004 3/17/2004 0 0 0 0 0 3/18 Coping / Misc. Metal Flashing - WH 3/18/2004 3/24/2004 0 0 0 0 0 3/17 Roof Insulation - WH 3/18/2004 3/24/2004 5 2.5 2.5 2.5 2.5 3.18 Roof Membrane - WH 4/1/2004 4/7/2004 5 2.5 2.5 2.5 2.5 318 Roof Membrane - WH 4/18/2004 4/7/2004 5 5/27/2004 250 125 125 320 Gutter and Downspout - WH 5/14/2004 5/27/2004 240 120 120 321 ROOFING - EAST HOTEL 1/30/2004 5/13/2004 25 12.5 12.5 322 Metal Roofing at Lobby - EH 1/30/2004 5/13/2004 25 12.5 12.5 323 Wood Blocking - EH 2/13/2004 2/12/2004 25 12.5 12.5 324 Coping / Misc. Metal Flashing - EH 3/25/2004 4/7/2004 0 0 0 0 325 Roof Insulation - EH 4/8/2004 4/14/2004 0 0 0 0 326 Roof Membrane - EH 4/15/2004 4/29/2004 240 120 120 328 Gutter and Downspout - EH 4/30/2004 5/13/2004 240 120 120 329 VENEER - HOTEL EAST 2/6/2004 4/21/2004 40 20 20 330 Precast Concrete at North Side - EH 4/12/2004 4/12/2004 40 20 20 331 Precast Concrete at South Side - EH 4/13/2004 4/12/2004 40 20 20 332 Dampproof & Set Hokie Stone - North - EH 4/30/2004 5/12/2004 4/0 20 20 332 Dampproof & Set Hokie Stone - North - EH 4/30/2004 5/12/2004 4/0 20 20 333 Dampproof & Set Hokie Stone - South - EH 4/30/2004 5/12/2004 4/0 20 20 334 Install Windows North Side - EH 4/12/2004 6/2/2004 4/0 20 20 335 Roef Install Windows South Side - EH 4/12/2004 6/2/2004 6/2/2004 4/0 20 20 336 Roef Install Windows South Side - EH 4/12/2004 6/2/				0		0
315 Wood Blocking - WH 3/12/2004 3/17/2004 0 0 0 0 0 316 Coping / Misc. Metal Flashing - WH 3/18/2004 3/14/2004 0 0 0 0 0 3/17 Roof Insulation - WH 3/25/2004 3/31/2004 5 2.5 2.5 2.5 318 Roof Membrane - WH 4/1/2004 4/71/2004 5 2.5 2.5 2.5 319 Roof Scuppers - WH 4/8/2004 4/15/2004 250 125 125 125 320 Gutter and Downspout - WH 5/14/2004 5/27/2004 240 120 120 321 ROOFING - EAST HOTEL 1/30/2004 5/13/2004 251 12.5 12.5 322 Metal Roofing at Lobby - EH 1/30/2004 5/13/2004 25 12.5 12.5 323 Wood Blocking - EH 2/13/2004 2/18/2004 25 12.5 12.5 324 Coping / Misc. Metal Flashing - EH 3/25/2004 4/71/2004 0 0 0 0 0 325 Roof Insulation - EH 4/8/2004 4/14/2004 0 0 0 0 0 326 Roof Membrane - EH 4/15/2004 4/21/2004 240 120 120 328 Gutter and Downspout - EH 4/30/2004 5/13/2004 240 120 120 329 VENEER - HOTEL EAST 2/6/2004 4/21/2004 40 20 20 330 Precast Concrete at North Side - EH 4/13/2004 4/12/2004 40 20 20 331 Precast Concrete at North Side - EH 4/13/2004 4/12/2004 40 20 20 331 Precast Concrete at North Side - EH 4/13/2004 4/12/2004 40 20 20 331 Precast Concrete at North Side - EH 4/13/2004 4/12/20						
316 Coping / Misc. Metal Flashing - WH 3/18/2004 3/24/2004 0 0 0 0 0 0 317 Roof Insulation - WH 3/25/2004 3/31/2004 5 2.5 2.5 2.5 318 Roof Membrane - WH 4/18/2004 4/17/2004 5 2.5 2.5 2.5 319 Roof Scuppers - WH 4/8/2004 4/15/2004 250 125 125 320 Gutter and Downspout - WH 5/14/2004 5/27/2004 240 120 120 120 321 ROOFING - EAST HOTEL 1/30/2004 5/13/2004 25 12.5 12.5 322 Metal Roofing at Lobby - EH 1/30/2004 2/18/2004 25 12.5 12.5 323 Wood Blocking - EH 2/13/2004 2/18/2004 25 12.5 12.5 324 Coping / Misc. Metal Flashing - EH 3/25/2004 4/18/2004 25 12.5 12.5 325 Roof Insulation - EH 4/8/2004 4/18/2004 4/14/2004 0 0 0 0 326 Roof Insulation - EH 4/15/2004 4/18/2004 4/14/2004 0 0 0 0 327 Roof Scuppers - EH 4/22/2004 4/29/2004 4/12 120 120 328 Gutter and Downspout - EH 4/30/2004 4/19/2004 4/1 120 120 329 VENEER - HOTEL EAST 2/6/2004 4/19/2004 4/0 20 20 330 Precast Concrete at North Side - EH 2/6/2004 2/19/2004 4/0 20 20 331 Precast Concrete at South Side - EH 2/12/2004 3/19/2004 4/0 20 20 332 Dampproof & Set Hokie Stone - North - EH 2/12/2004 3/19/2004 4/0 20 20 333 Install Windows North Side - EH 2/12/2004 3/19/2004 4/0 20 20 334 Install Windows North Side - EH 2/12/2004 5/27/2004 3/3/2004 6/27/2004		_		0	0	0
375 375				0	0	0
318 Roof Membrane - WH		3/25/2004	3/31/2004	5	2.5	2.5
319 Roof Scuppers - WH						2.5
320 Gutter and Downspout - WH				250		
321 ROOFING - EAST HOTEL 1/30/2004 5/13/2004 25 12.5						
322 Metal Roofing at Lobby - EH		1/30/2004		25	12.5	12.5
323 Wood Blocking - EH						
324 Coping / Misc. Metal Flashing - EH 3/25/2004 4/7/2004 0 0 0 0 325 Roof Insulation - EH 4/8/2004 4/14/2004 0 0 0 0 0 326 Roof Membrane - EH 4/15/2004 4/12/2004 0 0 0 0 0 327 Roof Scuppers - EH 4/15/2004 4/29/2004 240 120 120 328 Gutter and Downspout - EH 4/30/2004 5/13/2004 240 120 120 329 VENEER - HOTEL EAST 2/6/2004 7/26/2004 40 20 20 330 Precast Concrete at North Side - EH 2/6/2004 2/19/2004 40 20 20 231 Precast Concrete at South Side - EH 4/12/2004 4/12/2				_		
326 Roof Membrane - EH		3/25/2004				
327 Roof Scuppers - EH				0	0	0
327 Roof Scuppers - EH	326 Roof Membrane - EH	4/15/2004	4/21/2004	0	0	0
328 Gutter and Downspout - EH	327 Roof Scuppers - EH			240	120	120
329 VENEER - HOTEL EAST 2/6/2004 7/26/2004 40 20 20 20 330 Precast Concrete at North Side - EH 2/6/2004 2/19/2004 40 20 20 20 331 Precast Concrete at South Side - EH 4/12/2004 4/21/2004 4/21/2004 46 23 23 23 23 23 23 24 2/12/2004 3/10/2004 40 20 20 20 20 23 23 23 2		4/30/2004	5/13/2004	240	120	120
331 Precast Concrete at South Side - EH		2/6/2004	7/26/2004	40	20	20
331 Precast Concrete at South Side - EH	330 Precast Concrete at North Side - EH	2/6/2004	2/19/2004	40	20	20
333 Dampproof & Set Hokie Stone - South - EH 4/30/2004 5/27/2004 40 20 20 334 Install Windows North Side - EH 2/20/2004 3/9/2004 134 67 67 335 Install Windows South Side - EH 4/22/2004 5/7/2004 103 51.5 51.5 336 Precast Concrete Coping - EH 5/28/2004 6/11/2004 93 46.5 46.5 337 Set Exterior Door Frames - EH 5/28/2004 6/2/2004 100 50 50 338 Metal Stud Framing at Roof - EH 6/2/2004 6/2/2004 72 36 36 339 Gypsum Sheathing at Roof - EH 6/23/2004 6/30/2004 72 36 36 340 Metal Roofing - EH 7/1/2004 7/14/2004 72 36 36 341 Sealants - EH 7/15/2004 7/19/2004 72 36 36 342 Clean Veneer Stone - EH 7/20/2004 7/26/2004 72 36 36 343 VENE	331 Precast Concrete at South Side - EH		4/21/2004	46	23	23
333 Dampproof & Set Hokie Stone - South - EH 4/30/2004 5/27/2004 40 20 20 334 Install Windows North Side - EH 2/20/2004 3/9/2004 134 67 67 335 Install Windows South Side - EH 4/22/2004 5/7/2004 103 51.5 51.5 336 Precast Concrete Coping - EH 5/28/2004 6/11/2004 93 46.5 46.5 337 Set Exterior Door Frames - EH 5/28/2004 6/2/2004 100 50 50 338 Metal Stud Framing at Roof - EH 6/2/2004 6/2/2004 72 36 36 339 Gypsum Sheathing at Roof - EH 6/23/2004 6/30/2004 72 36 36 340 Metal Roofing - EH 7/1/2004 7/14/2004 72 36 36 341 Sealants - EH 7/15/2004 7/19/2004 72 36 36 342 Clean Veneer Stone - EH 7/20/2004 7/26/2004 72 36 36 343 VENE	332 Dampproof & Set Hokie Stone - North - EH	2/12/2004	3/10/2004	40	20	20
335 Install Windows South Side - EH 4/22/2004 5/7/2004 103 51.5 51.5 336 Precast Concrete Coping - EH 5/28/2004 6/11/2004 93 46.5 46.5 337 Set Exterior Door Frames - EH 5/28/2004 6/2/2004 100 50 50 338 Metal Stud Framing at Roof - EH 6/2/2004 6/22/2004 72 36 36 339 Gypsum Sheathing at Roof - EH 6/23/2004 6/30/2004 72 36 36 340 Metal Roofing - EH 7/1/2004 7/14/2004 72 36 36 341 Sealants - EH 7/15/2004 7/19/2004 72 36 36 342 Clean Veneer Stone - EH 7/20/2004 7/26/2004 72 36 36 343 VENEER - HOTEL WEST 2/20/2004 8/4/2004 45 22.5 22.5 344 Precast Concrete at North Side - WH 3/17/2004 4/9/2004 46 23 23 345 Precast Concrete a				40	20	20
336 Precast Concrete Coping - EH 5/28/2004 6/11/2004 93 46.5 46.5 337 Set Exterior Door Frames - EH 5/28/2004 6/2/2004 100 50 50 338 Metal Stud Framing at Roof - EH 6/2/2004 6/2/2004 72 36 36 339 Gypsum Sheathing at Roof - EH 6/23/2004 6/30/2004 72 36 36 340 Metal Roofing - EH 7/11/2004 7/14/2004 72 36 36 341 Sealants - EH 7/15/2004 7/19/2004 72 36 36 342 Clean Veneer Stone - EH 7/20/2004 7/26/2004 72 36 36 343 VENEER - HOTEL WEST 2/20/2004 8/4/2004 45 22.5 22.5 344 Precast Concrete at North Side - WH 2/20/2004 3/16/2004 45 22.5 22.5 345 Precast Concrete at South Side - WH 3/17/2004 4/9/2004 46 23 23 346 Dampproof & Set Hokie Stone North - WH 3/11/2004 4/7/2004 40 20 20 348 Install Windows North Side - WH 3/17/2004 4/2/2004 256 128 128 349 Install Windows South Side - WH 4/12/2004 4/27/2004 251 125.5	334 Install Windows North Side - EH	2/20/2004	3/9/2004	134	67	67
337 Set Exterior Door Frames - EH 5/28/2004 6/2/2004 100 50 50 338 Metal Stud Framing at Roof - EH 6/2/2004 6/22/2004 72 36 36 339 Gypsum Sheathing at Roof - EH 6/23/2004 6/30/2004 72 36 36 340 Metal Roofing - EH 7/1/2004 7/14/2004 72 36 36 341 Sealants - EH 7/15/2004 7/19/2004 72 36 36 342 Clean Veneer Stone - EH 7/20/2004 7/26/2004 72 36 36 343 VENEER - HOTEL WEST 2/20/2004 8/4/2004 45 22.5 22.5 344 Precast Concrete at North Side - WH 2/20/2004 3/16/2004 45 22.5 22.5 345 Precast Concrete at South Side - WH 3/17/2004 4/9/2004 46 23 23 346 Dampproof & Set Hokie Stone North - WH 3/11/2004 4/7/2004 40 20 20 348 Install Windows North Side - WH 3/17/2004 4/2/2004 256 128 128 349 Install Windows South Side - WH 4/12/2004 4/27/2004 251 125.5	335 Install Windows South Side - EH	4/22/2004	5/7/2004	103	51.5	51.5
338 Metal Stud Framing at Roof - EH 6/2/2004 6/22/2004 72 36 36 339 Gypsum Sheathing at Roof - EH 6/23/2004 6/30/2004 72 36 36 340 Metal Roofing - EH 7/11/2004 7/14/2004 72 36 36 341 Sealants - EH 7/15/2004 7/19/2004 72 36 36 342 Clean Veneer Stone - EH 7/20/2004 7/26/2004 72 36 36 343 VENEER - HOTEL WEST 2/20/2004 8/4/2004 45 22.5 22.5 344 Precast Concrete at North Side - WH 2/20/2004 3/16/2004 45 22.5 22.5 345 Precast Concrete at South Side - WH 3/17/2004 4/9/2004 46 23 23 346 Dampproof & Set Hokie Stone North - WH 3/11/2004 4/7/2004 40 20 20 348 Install Windows North Side - WH 3/17/2004 4/2/2004 256 128 128 349 Install Windows South Side - WH 4/12/2004 4/27/2004 251 125.5 125.5	336 Precast Concrete Coping - EH	5/28/2004	6/11/2004	93	46.5	46.5
339 Gypsum Sheathing at Roof - EH 6/23/2004 6/30/2004 72 36 36 340 Metal Roofing - EH 7/1/2004 7/14/2004 72 36 36 341 Sealants - EH 7/15/2004 7/19/2004 72 36 36 342 Clean Veneer Stone - EH 7/20/2004 7/26/2004 72 36 36 343 VENEER - HOTEL WEST 2/20/2004 8/4/2004 45 22.5 22.5 344 Precast Concrete at North Side - WH 2/20/2004 3/16/2004 45 22.5 22.5 345 Precast Concrete at South Side - WH 3/17/2004 4/9/2004 46 23 23 346 Dampproof & Set Hokie Stone North - WH 3/11/2004 4/7/2004 40 20 20 347 Dampproof & Set Hokie Stone South - WH 4/8/2004 5/5/2004 40 20 20 348 Install Windows North Side - WH 3/17/2004 4/2/2004 256 128 128 128 349 Install Windows South Side - WH 4/12/2004 4/27/2004 251 125.5 125.5		5/28/2004	6/2/2004	100	50	50
340 Metal Roofing - EH 7/1/2004 7/14/2004 72 36 36 341 Sealants - EH 7/15/2004 7/19/2004 72 36 36 342 Clean Veneer Stone - EH 7/20/2004 7/26/2004 72 36 36 343 VENEER - HOTEL WEST 2/20/2004 8/4/2004 45 22.5 22.5 344 Precast Concrete at North Side - WH 2/20/2004 3/16/2004 45 22.5 22.5 345 Precast Concrete at South Side - WH 3/17/2004 4/9/2004 46 23 23 346 Dampproof & Set Hokie Stone North - WH 3/11/2004 4/7/2004 40 20 20 347 Dampproof & Set Hokie Stone South - WH 4/8/2004 5/5/2004 40 20 20 348 Install Windows North Side - WH 3/17/2004 4/2/2004 256 128 128 349 Install Windows South Side - WH 4/12/2004 4/27/2004 251 125.5 125.5	338 Metal Stud Framing at Roof - EH	6/2/2004	6/22/2004	72	36	36
341 Sealants - EH 7/15/2004 7/19/2004 72 36 36 342 Clean Veneer Stone - EH 7/20/2004 7/26/2004 72 36 36 343 VENEER - HOTEL WEST 2/20/2004 8/4/2004 45 22.5 22.5 344 Precast Concrete at North Side - WH 2/20/2004 3/16/2004 45 22.5 22.5 345 Precast Concrete at South Side - WH 3/17/2004 4/9/2004 46 23 23 346 Dampproof & Set Hokie Stone North - WH 3/11/2004 4/7/2004 40 20 20 347 Dampproof & Set Hokie Stone South - WH 4/8/2004 5/5/2004 40 20 20 348 Install Windows North Side - WH 3/17/2004 4/2/2004 256 128 128 349 Install Windows South Side - WH 4/12/2004 4/27/2004 251 125.5 125.5	339 Gypsum Sheathing at Roof - EH	6/23/2004	6/30/2004	72	36	36
342 Clean Veneer Stone - EH 7/20/2004 7/26/2004 72 36 36 343 VENEER - HOTEL WEST 2/20/2004 8/4/2004 45 22.5 22.5 344 Precast Concrete at North Side - WH 2/20/2004 3/16/2004 45 22.5 22.5 345 Precast Concrete at South Side - WH 3/17/2004 4/9/2004 46 23 23 346 Dampproof & Set Hokie Stone North - WH 3/11/2004 4/7/2004 40 20 20 347 Dampproof & Set Hokie Stone South - WH 4/8/2004 5/5/2004 40 20 20 348 Install Windows North Side - WH 3/17/2004 4/2/2004 256 128 128 349 Install Windows South Side - WH 4/12/2004 4/27/2004 251 125.5 125.5	340 Metal Roofing - EH	7/1/2004	7/14/2004	72	36	36
342 Clean Veneer Stone - EH 7/20/2004 7/26/2004 72 36 36 343 VENEER - HOTEL WEST 2/20/2004 8/4/2004 45 22.5 22.5 344 Precast Concrete at North Side - WH 2/20/2004 3/16/2004 45 22.5 22.5 345 Precast Concrete at South Side - WH 3/17/2004 4/9/2004 46 23 23 346 Dampproof & Set Hokie Stone North - WH 3/11/2004 4/7/2004 40 20 20 347 Dampproof & Set Hokie Stone South - WH 4/8/2004 5/5/2004 40 20 20 348 Install Windows North Side - WH 3/17/2004 4/2/2004 256 128 128 349 Install Windows South Side - WH 4/12/2004 4/27/2004 251 125.5 125.5	341 Sealants - EH	7/15/2004	7/19/2004	72	36	36
343 VENEER - HOTEL WEST 2/20/2004 8/4/2004 45 22.5 22.5 344 Precast Concrete at North Side - WH 2/20/2004 3/16/2004 45 22.5 22.5 345 Precast Concrete at South Side - WH 3/17/2004 4/9/2004 46 23 23 346 Dampproof & Set Hokie Stone North - WH 3/11/2004 4/7/2004 40 20 20 347 Dampproof & Set Hokie Stone South - WH 4/8/2004 5/5/2004 40 20 20 348 Install Windows North Side - WH 3/17/2004 4/2/2004 256 128 128 349 Install Windows South Side - WH 4/12/2004 4/27/2004 251 125.5 125.5	342 Clean Veneer Stone - EH	7/20/2004		72	36	36
345 Precast Concrete at South Side - WH 3/17/2004 4/9/2004 46 23 23 346 Dampproof & Set Hokie Stone North - WH 3/11/2004 4/7/2004 40 20 20 347 Dampproof & Set Hokie Stone South - WH 4/8/2004 5/5/2004 40 20 20 348 Install Windows North Side - WH 3/17/2004 4/2/2004 256 128 128 349 Install Windows South Side - WH 4/12/2004 4/27/2004 251 125.5 125.5	343 VENEER - HOTEL WEST	2/20/2004		45	22.5	22.5
346 Dampproof & Set Hokie Stone North - WH 3/11/2004 4/7/2004 40 20 20 347 Dampproof & Set Hokie Stone South - WH 4/8/2004 5/5/2004 40 20 20 348 Install Windows North Side - WH 3/17/2004 4/2/2004 256 128 128 349 Install Windows South Side - WH 4/12/2004 4/27/2004 251 125.5 125.5	344 Precast Concrete at North Side - WH	2/20/2004	3/16/2004	45	22.5	22.5
346 Dampproof & Set Hokie Stone North - WH 3/11/2004 4/7/2004 40 20 20 347 Dampproof & Set Hokie Stone South - WH 4/8/2004 5/5/2004 40 20 20 348 Install Windows North Side - WH 3/17/2004 4/2/2004 256 128 128 349 Install Windows South Side - WH 4/12/2004 4/27/2004 251 125.5 125.5			4/9/2004	46		
347 Dampproof & Set Hokie Stone South - WH 4/8/2004 5/5/2004 40 20 20 348 Install Windows North Side - WH 3/17/2004 4/2/2004 256 128 128 349 Install Windows South Side - WH 4/12/2004 4/27/2004 251 125.5 125.5			4/7/2004	40	20	20
348 Install Windows North Side - WH 3/17/2004 4/2/2004 256 128 128 349 Install Windows South Side - WH 4/12/2004 4/27/2004 251 125.5 125.5			5/5/2004	40	20	
349 Install Windows South Side - WH 4/12/2004 4/27/2004 251 125.5 125.5			4/2/2004	256	128	128
		4/12/2004				
	350 Precast Concrete Coping - WH	5/6/2004	5/19/2004	235	117.5	117.5

Table A-1: Continued [pg. 8 of 20]

	[rec	Start-Finish Database ATF Da				
				\geq	7	
	Description	Start	Finish	TF	Owner	Contractor
_	Set Exterior Door Frames - WH	5/6/2004	5/6/2004	244	122	122
	Metal Stud Framing at Roof - WH	5/6/2004	5/21/2004	57	28.5	28.5
	Gypsum Sheathing at Roof - WH	5/24/2004	6/1/2004	57	28.5	28.5
354	Metal Roofing - WH	6/2/2004	6/15/2004	57	28.5	28.5
355	Sealants - WH	7/20/2004	7/23/2004	195	97.5	97.5
356	Clean Veneer Stone - WH	7/27/2004	8/4/2004	194	97	97
357	INTERIOR FINISH HOTEL 4th Floor	4/22/2004	10/13/2004	0	0	0
358	Spray Fireproof - 4H	4/22/2004	4/27/2004	0	0	0
359	Gypsum Concrete -4 H	4/28/2004	5/3/2004	0	0	0
360	Install Stairs H1- 4H	4/22/2004	5/5/2004	113	56.5	56.5
361	Install Stairs H2 - 4H	5/6/2004	5/19/2004	113	56.5	56.5
362	Pour Stair Pans - 4H	5/20/2004	5/25/2004	113	56.5	56.5
363	Install HM Frames - 4H	5/4/2004	5/7/2004	0	0	0
364	Start Int Studs & Drywall 1 Side - 4H	5/6/2004	5/19/2004	0	0	0
365	Rough-In Plumbing - 4H	5/13/2004	6/10/2004	68	34	34
366	Rough-In HVAC Piping - 4H	5/13/2004	6/10/2004	68	34	34
	Rough-In Ductwork - 4H	5/14/2004	6/3/2004	0	0	0
	Rough-In Sprinkler - 4H	5/20/2004	6/7/2004	83	41.5	41.5
369	Rough-In Electrical - 4H	5/13/2004	6/8/2004	82	41	41
	Insulate Plumbing Pipe - 4H	6/11/2004	6/28/2004	68	34	34
	Insulate HVAC Pipe - 4H	6/11/2004	6/28/2004	68	34	34
	Insulate Duct - 4H	6/4/2004	6/15/2004	77	38.5	38.5
	Install Interior Wall Blocking - 4H	5/20/2004	5/25/2004	80	40	40
_	Install Tubs - 4H	5/26/2004	6/7/2004	80	40	40
	Install Bath Door Frames & Complete Wall - 4H	6/8/2004	6/15/2004	80	40	40
	Pull Electric Wire to Panels - 4H	6/9/2004	6/22/2004	176	88	88
	Install Unit Drywall Ceilings - 4H	6/29/2004	7/13/2004	68	34	34
	Complete & Finish Unit Drywall - 4H	7/7/2004	8/3/2004	72	36	36
	Install Corridor Drywall Ceilings - 4H	7/14/2004	7/20/2004	68	34	34
	Furr & Drywall Corridor - 4H	7/21/2004	8/5/2004	68	34	34
	Paint Base & 1st Coat - 4H	8/2/2004	8/13/2004	68	34	34
	Install Window Sills - 4H	8/4/2004	8/11/2004	72	36	36
	Install Acoustical Tile Ceiling Grid - 4H	8/16/2004	8/18/2004	68	34	34
	Install Control Rough-Ins - 4H	8/19/2004	8/25/2004	68	34	34
	Install Ceramic Tile in Toilets - 4H	7/14/2004		171	85.5	85.5
_	Install Lights - 4H	6/23/2004	6/30/2004	176	88	88
	Finish Paint - 4H	8/12/2004		148	74	74
	Install Counter Tops - 4H	8/20/2004	8/27/2004		74	74
	Set Plumbing Fixtures - 4H	8/30/2004				74
	Install Sprinkler Heads - 4H	8/19/2004	8/24/2004	69	34.5	34.5
	Install Vinyl Wall Cover in Units - 4H	8/12/2004	8/23/2004	72	36	36
	Install Toilet Accessories - 4H	9/14/2004	9/17/2004	148	74	74
	Install Mech Diffusers - 4H	8/19/2004	8/24/2004	72	36	36
_	Trim Electric - 4H	8/20/2004	9/1/2004	159	79.5	79.5
	Install Closet Shelves - 4H	8/24/2004	8/26/2004	163	81.5	81.5
_	Install Doors/Hardware - 4H	8/24/2004	9/7/2004	156	78	78
_	Install FEC - 4H	8/24/2004	8/24/2004	72	36	36
	Install Ceiling Tile - 4H	8/26/2004	8/30/2004	68	34	34
	Install Corridor VWC - 4H	8/31/2004	9/10/2004	68	34	34
	Trim Controls - 4H	9/13/2004	9/14/2004	136	68	68
55	1	J S. E 00 T	3: :: = 007	. 55	3	

Table A-1: Continued [pg. 9 of 20]

		Start-Finish Database		ATF Database		
ID	Description	Start	Finish	TF	Owner	Contractor
	Install Carpet - 4H	9/9/2004	9/22/2004	68	34	34
	Install Wood Base - 4H	9/23/2004			67.5	67.5
	Install Rubber Base - 4H	9/23/2004		139	69.5	69.5
	Final Clean - 4H	10/7/2004			67.5	67.5
	INTERIOR FINISH HOTEL 3rd Floor	4/28/2004		7	3.5	3.5
	Spray Fireproof - 3H	4/28/2004		7	3.5	3.5
	Gypsum Concrete - 3H	5/4/2004	5/7/2004	7	3.5	3.5
	Install HM Frames - 3H	5/10/2004	5/13/2004	7	3.5	3.5
	Start Int Studs & Drywall 1 Side - 3H	5/14/2004	5/27/2004	7	3.5	3.5
	Rough-In Plumbing - 3H	5/21/2004	6/11/2004	79	39.5	39.5
	Rough-In HVAC Piping - 3H	5/21/2004	6/11/2004	79	39.5	39.5
	Rough-In Ductwork - 3H	6/4/2004	6/17/2004	0	0	0
	Rough-In Sprinkler - 3H	5/25/2004	6/10/2004	90	45	45
	Rough-In Electrical - 3H	5/21/2004	6/11/2004	89	44.5	44.5
	Insulate Plumbing Pipe - 3H	6/14/2004	6/25/2004	79	39.5	39.5
416	Insulate HVAC Pipe - 3H	6/14/2004	6/25/2004	79	39.5	39.5
	Insulate Duct - 3H	6/18/2004	6/29/2004	77	38.5	38.5
	Install Interior Wall Blocking - 3H	5/28/2004	6/3/2004	84	42	42
	Install Tubs - 3H			84	42	42
	Install Bath Door Frames & Complete Wall - 3H	6/4/2004 6/16/2004	6/15/2004 6/23/2004	84	42	42
	Install Unit Drywall Ceilings - 3H	6/30/2004	7/14/2004	77	38.5	38.5
421	Pull Electric Wire to Panels - 3H					
		6/14/2004	6/25/2004	178	89	89 40 F
	Complete & Finish Unit Drywall - 3H Install Corridor Drywall Ceilings - 3H	7/8/2004	8/4/2004	81	40.5	40.5 38.5
		7/15/2004	7/21/2004	77	38.5	
	Furr & Drywall Corridor - 3H	7/22/2004	8/6/2004	77	38.5	38.5
	Paint Base & 1st Coat - 3H	8/3/2004	8/16/2004	77	38.5	38.5
	Install Window Sills - 3H	8/5/2004	8/12/2004	81	40.5	40.5
	Install Acoustical Tile Ceiling Grid - 3H	8/17/2004	8/19/2004	77	38.5	38.5
	Install Control Rough-Ins - 3H	8/20/2004		77	38.5	38.5
	Install Ceramic Tile in Toilets - 3H	7/15/2004	7/28/2004	175	87.5	87.5
	Install Lights - 3H	6/28/2004	7/7/2004	178	89	89
	Finish Paint - 3H	8/13/2004	8/20/2004	152	76	76
	Install Counter Tops - 3H	8/23/2004	8/30/2004	152	76	76
	Set Plumbing Fixtures - 3H	8/31/2004	9/14/2004	152	76	76
	Install Sprinkler Heads - 3H	8/20/2004		78	39	39
	Install Vinyl Wall Cover in Units - 3H	8/13/2004		81	40.5	40.5
	Install Toilet Accessories - 3H	9/15/2004		152	76	76
	Install Mech Diffusers - 3H	8/20/2004		78	39	39
	Trim Electric - 3H	8/23/2004		163	81.5	81.5
	Install Closet Shelves - 3H	8/25/2004	8/27/2004	167	83.5	83.5
	Install Doors/Hardware - 3H	8/25/2004	9/8/2004	160	80	80
	Install FEC - 3H	8/25/2004	8/25/2004	81	40.5	40.5
	Install Ceiling Tile - 3H	8/27/2004	8/31/2004	77	38.5	38.5
	Install Corridor VWC - 3H	9/1/2004	9/13/2004	77	38.5	38.5
	Trim Controls - 3H	9/15/2004	9/16/2004	136	68	68
	Install Carpet - 3H	9/23/2004	10/6/2004	68	34	34
	Install Wood Base - 3H	10/7/2004			65	65
	Install Rubber Base - 3H	10/7/2004	10/14/2004		67	67
449	Final Clean - 3H	10/21/2004	10/27/2004	130	65	65

Table A-1: Continued [pg. 10 of 20]

		Start-Finish Database			ATF Database		
ID	Description	Start	Finish	TF	Owner	Contractor	
	INTERIOR FINISH HOTEL 2nd Floor	5/4/2004	11/10/2004	10	5	5	
451	Spray Fireproof - 2H	5/4/2004	5/7/2004	10	5	5	
	Gypsum Concrete - 2H	5/10/2004		10	5	5	
	Install HM Frames - 2H	5/14/2004	5/19/2004	10	5	5	
	Start Int Studs & Drywall 1 Side - 2H	5/20/2004		10	5	5	
	Rough-In Plumbing - 2H	6/11/2004		75	37.5	37.5	
	Rough-In HVAC Piping - 2H	6/11/2004	7/1/2004	75	37.5	37.5	
	Rough-In Ductwork - 2H	6/18/2004	7/1/2004	0	0	0	
	Rough-In Sprinkler - 2H	6/8/2004	6/23/2004	91	45.5	45.5	
	Rough-In Electrical - 2H	6/9/2004	6/29/2004	84	42	42	
	Insulate Plumbing Pipe - 2H	7/6/2004	7/19/2004	75	37.5	37.5	
	Insulate HVAC Pipe - 2H	7/6/2004	7/19/2004	75	37.5	37.5	
	Insulate Duct - 2H	7/6/2004	7/15/2004	77	38.5	38.5	
	Install Interior Wall Blocking - 2H	6/4/2004	6/9/2004	90	45	45	
	Install Tubs - 2H	6/10/2004		90	45	45	
	Install Bath Door Frames & Complete Wall - 2H	6/22/2004		90	45	45	
	Pull Electric Wire to Panels - 2H	6/30/2004	7/15/2004	171	85.5	85.5	
	Install Unit Drywall Ceilings - 2H	7/20/2004		75	37.5	37.5	
	Complete & Finish Unit Drywall - 2H	7/26/2004		79	39.5	39.5	
	Install Corridor Drywall Ceilings - 2H		8/6/2004		37.5		
		8/2/2004		75 75	37.5	37.5	
	Furr & Drywall Corridor - 2H	8/9/2004	8/24/2004			37.5	
	Paint Base & 1st Coat - 2H	8/19/2004	9/1/2004	75	37.5	37.5	
	Install Window Sills - 2H	8/23/2004		79	39.5	39.5	
	Install Acoustical Tile Ceiling Grid - 2H	9/2/2004	9/7/2004	75	37.5	37.5	
	Install Control Rough-Ins - 2H	9/8/2004	9/14/2004	75	37.5	37.5	
	Install Ceramic Tile in Toilets - 2H	8/2/2004	8/13/2004	168	84	84	
	Install Lights - 2H	7/16/2004		171	85.5	85.5	
	Finish Paint - 2H	8/31/2004	9/8/2004	145	72.5	72.5	
	Install Counter Tops - 2H	9/9/2004	9/16/2004	145	72.5	72.5	
	Set Plumbing Fixtures - 2H	9/17/2004	9/30/2004	145	72.5	72.5	
	Install Sprinkler Heads - 2H	9/8/2004	9/13/2004	76	38	38	
	Install Vinyl Wall Cover in Units - 2H	8/31/2004		79	39.5	39.5	
	Install Toilet Accessories - 2H	10/1/2004		145	72.5	72.5	
	Install Mech Diffusers - 2H	9/8/2004	9/13/2004	76	38	38	
	Trim Electric - 2H	9/9/2004	9/21/2004	156	78	78	
	Install Closet Shelves - 2H	9/13/2004		160	80	80	
	Install Doors/Hardware - 2H	9/13/2004	9/24/2004	153	76.5	76.5	
	Install FEC - 2H	9/13/2004		79	39.5	39.5	
488	Install Ceiling Tile - 2H	9/15/2004	9/17/2004	75	37.5	37.5	
489	Install Corridor VWC - 2H	9/20/2004	9/29/2004	75	37.5	37.5	
490	Trim Controls - 2H	9/30/2004	10/4/2004	127	63.5	63.5	
491	Install Carpet - 2H	10/7/2004	10/20/2004	68	34	34	
492	Install Wood Base - 2H	10/21/2004	11/3/2004	125	62.5	62.5	
	Install Rubber Base - 2H		10/28/2004	129	64.5	64.5	
	Final Clean - 2H	11/4/2004			62.5	62.5	
	INTERIOR FINISH HOTEL 1st Floor	5/10/2004		16	8	8	
	Spray Fireproof - 1H	5/10/2004		16	8	8	
	Gypsum Concrete -1H	5/14/2004	5/19/2004	16	8	8	
	Install HM Frames - 1H	5/20/2004	5/25/2004	16	8	8	
	Start Int Studs & Drywall 1 Side - 1H	5/28/2004	6/11/2004	14	7	7	
	Rough-In Plumbing - 1H	6/14/2004	7/6/2004	86	43	43	
200	I G	J <u>-</u> 001		J			

Table A-1: Continued [pg. 11 of 20]

	Start-Finish Database			ATF Database		
ID Description	Start	Finish	TF	Owner	Contractor	
501 Rough-In HVAC Piping - 1H	6/14/2004		86	43	43	
502 Rough-In Ductwork - 1H	7/6/2004	7/21/2004	0	0	0	
503 Rough-In Sprinkler - 1H	6/24/2004	7/13/2004	91	45.5	45.5	
504 Rough-In Electrical - 1H	6/30/2004	7/22/2004	84	42	42	
505 Insulate Plumbing Pipe - 1H	7/7/2004	7/20/2004	86	43	43	
506 Insulate HVAC Pipe - 1H	7/7/2004	7/20/2004	86	43	43	
507 Insulate Duct - 1H	7/22/2004	8/2/2004	77	38.5	38.5	
508 Install Elevators, #1 - HOTEL	7/23/2004	8/12/2004	168	84	84	
509 Install Elevators #2 - HOTEL	8/6/2004	8/26/2004	168	84	84	
510 Install Elevators #3 - HOTEL	8/20/2004	9/10/2004	168	84	84	
511 Install Lobby Studs & DW 1 Side - 1H	6/14/2004	6/23/2004	96	48	48	
512 Install Wall RI Electric - 1H	6/24/2004	6/28/2004	108	54	54	
513 Complete Lobby Drywall Walls - 1H	6/29/2004	7/9/2004	108	54	54	
514 Build Lobby Fireplace - 1H	5/14/2004	6/1/2004	134	67	67	
515 Install Lobby Ceiling - 1H	6/24/2004	7/9/2004	96	48	48	
516 Install Lobby Tube Steel - 1H	7/12/2004	7/21/2004	96	48	48	
517 Install Lobby Upper Handrails - 1H	7/22/2004	7/27/2004	96	48	48	
518 Paint Lobby Base & 1st Coat - 1H	7/28/2004	8/3/2004	96	48	48	
519 Install Lobby VWC - 1H	8/4/2004	8/9/2004	96	48	48	
520 Install Lobby Ceramic Tile - 1H	8/10/2004	8/18/2004	96	48	48	
521 Install Lobby Wood Trim - 1H	8/19/2004	8/26/2004	96	48	48	
522 Install Lobby Expansion Joint Covers - 1H	8/27/2004	8/30/2004	96	48	48	
523 Finish Paint Lobby - 1H	8/31/2004		96	48	48	
524 Install Lobby Front Desk - 1H	9/8/2004	9/10/2004	96	48	48	
525 Install Lobby Carpet - 1H	10/21/2004	10/22/2004	68	34	34	
526 Install Interior Wall Blocking - 1H	6/14/2004	6/17/2004	96	48	48	
527 Install Tubs - 1H	6/18/2004	6/29/2004	96	48	48	
528 Install Door Frames & Complete Wall - 1H	6/30/2004	7/9/2004	96	48	48	
529 Pull Electric Wire to Panels - 1H	7/23/2004	8/9/2004	157	78.5	78.5	
530 Install Unit Drywall Ceilings - 1H	8/3/2004	8/13/2004	77	38.5	38.5	
531 Complete & Finish Unit Drywall - 1H	8/9/2004	9/3/2004	81	40.5	40.5	
532 Install Corridor Drywall Ceilings - 1H	8/16/2004	8/20/2004	77	38.5	38.5	
533 Furr & Drywall Corridor - 1H	8/23/2004	9/8/2004	77	38.5	38.5	
534 Paint Base & 1st Coat - 1H	9/2/2004	9/16/2004	77	38.5	38.5	
535 Install Window Sills - 1H	9/7/2004	9/14/2004	81	40.5	40.5	
536 Install Acoustical Tile Ceiling Grid - 1H	9/17/2004	9/21/2004	77	38.5	38.5	
537 Install Control Rough-Ins - 1H	9/22/2004	9/28/2004	77	38.5	38.5	
538 Install Ceramic Tile in Toilets - 1H	9/7/2004	9/20/2004	148	74	74	
539 Install Lights - 1H	8/10/2004	8/19/2004	157	78.5	78.5	
540 Finish Paint - 1H	8/20/2004	8/27/2004	157	78.5	78.5	
541 Install Counter Tops - 1H	8/30/2004	9/7/2004	157	78.5	78.5	
542 Set Plumbing Fixtures - 1H	9/21/2004	10/4/2004	148	74	74	
543 Install Sprinkler Heads - 1H	9/22/2004	9/27/2004	78	39	39	
544 Install Vinyl Wall Cover in Units - 1H	9/15/2004	9/24/2004	81	40.5	40.5	
545 Install Toilet Accessories - 1H	10/5/2004	10/8/2004	148	74	74	
546 Install Mech Diffusers - 1H	9/22/2004	9/27/2004	78	39	39	
547 Trim Electric - 1H	9/22/2004	10/4/2004	152	76	76	
548 Install Closet Shelves - 1H	9/27/2004	9/29/2004	155	77.5	77.5	
549 Install Doors/Hardware - 1H	9/27/2004	10/8/2004	148	74	74	
550 Install FEC - 1H	9/27/2004	9/27/2004	81	40.5	40.5	

Table A-1: Continued [pg. 12 of 20]

		Start-Finish Database			ATF Database		
ID	Description	Start	Finish	TF	Owner	Contractor	
	Install Ceiling Tile - 1H	9/29/2004		77	38.5	38.5	
	Install Corridor VWC - 1H		10/13/2004	77	38.5	38.5	
	Trim Controls - 1H		10/18/2004		60	60	
	Install Carpet - 1H		11/5/2004	68	34	34	
	Install Wood Base - 1H	11/8/2004			59	59	
	Install Rubber Base - 1H	11/8/2004			61	61	
	Final Clean - 1H		11/30/2004		59	59	
	FOUNDATION - LOWER CONF. CENTER - 1st F		11/10/2003	35	17.5	17.5	
	Establish Major Axis Lines - C	7/15/2003	7/15/2003	41	20.5	20.5	
	Layout Footings (North & South)- C	8/21/2003		15	7.5	7.5	
	Drill Elevator Jack Hole - C	7/16/2003	7/18/2003	41	20.5	20.5	
	Excavate Footings - C	8/26/2003	9/5/2003	15	7.5	7.5	
	Form and Place Footings - C	8/27/2003	9/8/2003	15	7.5	7.5	
	Form and Place Concrete Walls - C	9/3/2003	9/23/2003	15	7.5	7.5	
	Waterproof Walls - C	9/24/2003	10/1/2003	15	7.5	7.5	
	Backfill and Compact - C	10/2/2003		_	7.5	7.5	
	CMU to Finish SOG Floor - C	9/24/2003		35	17.5	17.5	
	Stub Up Incoming Water Main Line - C	10/1/2003		35	17.5	17.5	
	U.G. Plumbing - C	10/3/2003		35	17.5	17.5	
570	Slab Stone and Base 1st Floor - C		10/13/2003		17.5	17.5	
	U.G. Electrical - C	10/23/2003		35	17.5	17.5	
	Termite Treatment - C	11/6/2003		35	17.5	17.5	
	Prep and Place Slab-on-Grade 1st FI - C		11/10/2003	35	17.5	17.5	
	FOUNDATION-MAIN LEVEL CONF.CENTER-2ndF	10/9/2003		15	7.5	7.5	
	Layout Footings - C		10/15/2003	_	7.5	7.5	
	Excavate Footings		10/13/2003		7.5	7.5	
	Form and Place Footings - C		10/23/2003		7.5	7.5	
	Prep & Place Loading Dock - C		10/22/2003		22	22	
	CMU to Finish Floor - C		11/4/2003	15	7.5	7.5	
	U.G. Plumbing - C		11/10/2003		7.5	7.5	
	Install Kitchen UG Plumbing - C		11/24/2003		7.5	7.5	
	Slab Stone and Base 2nd Floor - C		11/24/2003		7.5	7.5	
	U.G. Electrical - C		12/3/2003	15	7.5		
	Termite Treatment - C			15	7.5	7.5	
	Prep and Place SOG 2nd FI - C	12/4/2003			7.5	7.5	
	STRUCTURE CONFERENCE CENTER	12/5/2003		15	7.5	7.5 7.5	
	Set Building Structural Steel - C	12/11/2003 12/11/2003		15	7.5	7.5	
	2nd FI Lay Composite Metal Deck - C	1/15/2004		15	7.5	7.5	
	2nd Fl Install Beam Studs - C	1/20/2004		28	14	14	
	2nd Fi firstall Beart Studs - C 2nd Fi Prep and Place Slab-on-Deck - C			28			
	3rd FI Lay Composite Metal Deck - C	1/23/2004	1/26/2004	15	14 7.5	14	
		1/20/2004				7.5	
	3rd FI Install Beam Studs - C	1/30/2004	2/9/2004	18	9	9	
	3rd Fl Prep and Place Slab-on-Deck - C Roof Lay Composite Metal Deck - C	2/10/2004	2/13/2004	18	9		
	· ·	1/30/2004	2/10/2004	15	7.5	7.5	
	Roof Install Beam Studs - C	2/11/2004	2/13/2004	15	7.5	7.5	
	Roof Prep and Place Slab-on-Deck - C	2/16/2004	2/18/2004	15	7.5	7.5	
	Set HM Frames with CMU - C	2/19/2004	2/23/2004	15	7.5	7.5	
	Build CMU Elevator Towers 4&5 - C	2/24/2004	3/8/2004	15	7.5	7.5	
	Build CMU Stair Tower C1, C2, C3	2/26/2004	3/12/2004	15	7.5	7.5	
600	Build CMU Clock Tower - C	2/26/2004	3/17/2004	15	7.5	7.5	

Table A-1: Continued [pg. 13 of 20]

	Start-Finish Database ATF Databa				atabase
ID Description	Start	Finish	TF	Owner	Contractor
601 ROOF STRUCTURE - CONFERENCE CENTER	2/19/2004	4/12/2004	35	17.5	17.5
602 Set Bar Joists at Tower Roofs - C	3/18/2004		15	7.5	7.5
603 Metal Deck at Tower Roofs - C	3/25/2004	4/1/2004	29	14.5	14.5
604 Place Slab-on Deck at CRU #1 Mech Units - C	2/19/2004	2/24/2004	98	49	49
605 Set CRU #1 Mech Eqpt On Roof - C	2/25/2004	3/1/2004	98	49	49
606 Set Hokie Stone at CRU #1 - C	3/2/2004	3/8/2004	98	49	49
607 Set Steel Stairs at Clock Tower - C	4/2/2004	4/12/2004	37	18.5	18.5
608 ROOFING - CONFERENCE CENTER	4/2/2004	6/18/2004	29	14.5	14.5
609 Metal Roofing - C	4/2/2004	4/15/2004	29	14.5	14.5
610 Wood Blocking - C	4/16/2004		29	14.5	14.5
611 Roof Insulation - C	4/23/2004		29	14.5	14.5
612 Roof Membrane - C	4/28/2004	5/18/2004	29	14.5	14.5
613 Miscellaneous Metal Flashing - C	5/13/2004	5/24/2004	220	110	110
614 Roof Scuppers - C	5/25/2004	6/2/2004	220	110	110
615 Gutter and Downspout - C	6/3/2004	6/18/2004	220	110	110
616 VENEER - CONFERENCE CENTER	3/30/2004		15	7.5	7.5
617 Complete CMU 2nd FI Ext Walls North Side - C	3/30/2004	4/6/2004	15	7.5	7.5
618 Complete CMU 3rd FI Ext Walls North Side - C	4/7/2004	4/14/2004	15	7.5	7.5
619 Complete CMU 2nd FI Ext Walls West Side - C	4/15/2004		15	7.5	7.5
620 Complete CMU 3rd FI Ext Walls West Side - C	4/27/2004		15	7.5	7.5
621 Complete CMU 2nd FI Ext Walls East Side - C	5/7/2004	5/17/2004	15	7.5	7.5
622 Complete CMU 3rd FI Ext Walls East Side - C	5/18/2004	5/26/2004	15	7.5	7.5
623 Complete CMU 2nd FI Ext Walls South Side - C	5/27/2004	6/4/2004	15	7.5	7.5
624 Complete CMU 3rd FI Ext Walls South Side - C	6/7/2004	6/14/2004	15	7.5	7.5
625 Precast Concrete at North Windows - C	4/22/2004	5/5/2004	56	28	28
626 Precast Concrete at West Windows - C	5/6/2004	5/17/2004	63	31.5	31.5
627 Precast Concrete at East Windows - C	5/18/2004	5/24/2004	76	38	38
628 Precast Concrete at South Windows - C	6/15/2004	6/24/2004	72	36	36
629 Dampproof & Set Hokie Stone North - C	5/28/2004		40	20	20
630 Dampproof & Set Hokie Stone West - C	6/21/2004	7/16/2004	40	20	20
631 Dampproof & Set Hokie Stone East - C	7/19/2004	8/11/2004	40	20	20
632 Dampproof & Set Hokie Stone South - C	8/12/2004	9/1/2004	40	20	20
633 Dampproof&Set Hokie Stone Clock Tower - C	9/2/2004	9/14/2004	147	73.5	73.5
634 Install Windows - C	8/12/2004	9/9/2004	160	80	80
635 Install Aluminum Ext Doors - C	9/2/2004	9/13/2004	158	79	79
636 Precast Concrete Coping - C	8/19/2004	9/9/2004	160	80	80
637 Set Exterior Door Frames - C	8/12/2004	8/13/2004	178	89	89
638 Sealants - C	9/15/2004	9/28/2004	147	73.5	73.5
639 Clean Veneer Stone - C	9/29/2004	10/12/2004	147	73.5	73.5
640 INTERIOR FINISH CONF CENTER - 3rd Floor	3/18/2004	3/21/2005	34	17	17
641 Install Operable Partition Supports&Tracks-3C	5/19/2004	5/24/2004	29	14.5	14.5
642 Spray Fireproof -3C	6/15/2004	6/24/2004	15	7.5	7.5
643 Install Metal Stairs - 3C	3/18/2004	3/31/2004	108	54	54
644 Pour Stair Pans - 3C	4/1/2004	4/6/2004	108	54	54
645 Install Drywall HM Frames - 3C	6/25/2004	6/30/2004	31	15.5	15.5
646 Install Studs & Drywall 1 Side - 3C	7/1/2004	7/23/2004	31	15.5	15.5
647 Rough-In Plumbing - 3C	6/25/2004	7/14/2004	18	9	9
648 Rough-In HVAC Piping - 3C	6/25/2004	7/19/2004	15	7.5	7.5
649 Rough-In Ductwork - 3C	7/22/2004	8/18/2004	0	0	0
650 Rough-In Sprinkler - 3C	6/25/2004	7/26/2004	43	21.5	21.5

Table A-1: Continued [pg. 14 of 20]

		Start-Fir	nish Databas	e	ATF D	atabase
חו	Description	Start	Finish	TF	Owner	Contractor
	Rough-In Electrical - 3C	6/25/2004	7/26/2004	28	14	14
	Insulate Plumbing Pipe - 3C	7/15/2004	8/4/2004	28	14	14
	Insulate HVAC Pipe - 3C	7/20/2004	8/9/2004	25	12.5	12.5
	Insulate Duct - 3C	8/19/2004	9/9/2004	18	9	9
	Install Wall Blocking - 3C	7/26/2004	8/2/2004	33	16.5	16.5
	Pull Electric Wire to Panels - 3C	7/27/2004		132	66	66
	Install Elevators #4 - CONFERENCE	8/17/2004	9/7/2004	132	66	66
	Install Elevators #5 - CONFERENCE	9/8/2004	9/28/2004	132	66	66
	Install Elevators #6 - CONFERENCE	9/29/2004	10/19/2004		66	66
	Complete Drywall Walls - 3C	8/10/2004			14	14
	Install Toilet Drywall Ceilings - 3C	9/10/2004	9/17/2004		20.5	20.5
	Install Drywall Bulkheads & Ceilings - 3C	8/26/2004	9/16/2004	28	14	14
	Paint Base & 1st Coat - 3C	9/17/2004	10/4/2004	59	29.5	29.5
	Install Toilet Ceramic Tile - 3C	1	10/4/2004	41	29.5	29.5
		9/20/2004		18	9	
	Install Ballroom Drywall Bulkheads - 3C	9/10/2004		_		9
	Install Acoustic Ceiling Grids - 3C	10/1/2004			9	9
	Install Control Rough-Ins - 3C		10/26/2004		57	57 57
	Trim Above Ceiling Mechnical - 3C		10/26/2004		57	57
	Install Lights - 3C		11/2/2004		9	9
	install Sprinkler Heads - 3C		10/26/2004		33	33
	Install Plumbing Fixtures - 3C		10/15/2004		20.5	20.5
	Install Toilet Partitions - 3C		10/25/2004		20.5	20.5
	Install Toilet Accessories - 3C		10/28/2004		20.5	20.5
	Install Wood Trim - 3C	11/3/2004			9	9
	Install Acoustical Wall Panels		12/2/2004	18	9	9
	Finish Paint - 3C	12/3/2004			9	9
	Install Wood Paneling - 3C		12/28/2004		35	35
	Install VWC - 3C		1/10/2005	18	9	9
	Trim Controls - 3C	1/11/2005	1/24/2005	64	32	32
	Install VCT - 3C	1/11/2005	1/17/2005	18	9	9
	Install Operable Walls - 3C	12/3/2004	12/8/2004	47	23.5	23.5
	Install Projection Screens - 3C	10/13/2004			36	36
	Install Casework - 3C	1/18/2005	1/27/2005	18	9	9
	Install Ceiling Tile - 3C	11/3/2004			30.5	30.5
	Trim Electric - 3C	1/11/2005	1/17/2005	72	36	36
	Install Doors & Hardware - 3C	1/28/2005	2/17/2005	34	17	17
	Install Carpet - 3C	1/21/2005	2/10/2005	18	9	9
688	Install FEC - 3C	1/18/2005	1/18/2005	71	35.5	35.5
	Install Wood Base - 3C	2/18/2005	3/10/2005	34	17	17
	Install Rubber Base - 3C	1/18/2005	1/26/2005	65	32.5	32.5
	Final Clean - 3C	3/11/2005	3/21/2005	34	17	17
	INTERIOR FINISH CONF CENTER - 2nd Floor	5/25/2004	4/25/2005	16	8	8
	Install Operable Partition Supports&Tracks-2C	5/25/2004	6/15/2004	32	16	16
	Spray Fireproof -2C	6/25/2004	7/12/2004	20	10	10
	Install CMU HM Frames -2C	7/13/2004	7/16/2004	46	23	23
	Complete Interior CMU Walls - 2C	7/19/2004	8/6/2004	148	74	74
	Install Drywall HM Frames - 2C	7/19/2004	7/22/2004	46	23	23
	Install Studs & Drywall 1 Side - 2C	7/26/2004	8/10/2004	31	15.5	15.5
	Rough-In Plumbing - 2C	7/15/2004	8/11/2004	18	9	9
700	Rough-In HVAC Piping - 2C	7/20/2004	8/16/2004	15	7.5	7.5

Table A-1: Continued [pg. 15 of 20]

	(r.6. 10 10 10 10 10 10 10 10 10 10 10 10 10	Start-Finish Database ATF Database					
				7_			
	Description	Start	Finish	TF	Owner	Contractor	
	Rough-In Ductwork - 2C	8/19/2004	9/14/2004	0	0	0	
	Rough-In Sprinkler - 2C	7/27/2004		43	21.5	21.5	
	Rough-In Electrical - 2C	7/27/2004		28	14	14	
	Insulate Plumbing Pipe - 2C	8/5/2004	8/25/2004	28	14	14	
	Insulate HVAC Pipe - 2C	8/10/2004		25	12.5	12.5	
	Insulate Duct - 2C	9/15/2004		15	7.5	7.5	
	Install Wall Blocking - 2C	7/23/2004		46	23	23	
	Pull Electric Wire to Panels - 2C	8/17/2004		72	36	36	
	Complete Drywall Walls - 2C	8/31/2004		25	12.5	12.5	
	Install Toilet Drywall Ceilings - 2C	10/6/2004		16	8	8	
	Install Drywall Bulkheads & Ceilings - 2C	10/14/2004		16	8	8	
	Paint Base & 1st Coat - 2C		11/24/2004		8	8	
	Install Cold Storage Units - 2C	8/9/2004	8/12/2004	148	74	74	
714	Install Kitchen Exhaust Hoods - 2C	9/15/2004	9/17/2004	123	61.5	61.5	
715	Install Kitchen Quarry Tile - 2C	9/20/2004		123	61.5	61.5	
716	Install Toilet Ceramic Tile - 2C	10/14/2004	10/27/2004	65	32.5	32.5	
717	Install Acoustic Ceiling Grids - 2C	11/29/2004	12/10/2004	16	8	8	
718	Install Control Rough-Ins - 2C	12/13/2004	12/27/2004	83	41.5	41.5	
719	Trim Above Ceiling Mechnical - 2C	12/13/2004	12/27/2004	83	41.5	41.5	
720	Install Lights - 2C	12/13/2004	1/4/2005	16	8	8	
721	install Sprinkler Heads - 2C	12/13/2004	12/27/2004	61	30.5	30.5	
722	Install C122 Wood Frame Window - 2C	11/29/2004	12/1/2004	60	30	30	
	Finish Paint Kitchen - 2C	1/5/2005		62	31	31	
724	Install Kitchen Equipment - 2C	1/10/2005	1/28/2005	62	31	31	
725	Connect Plumbing to Kitchen Eqpt - 2C	1/20/2005		62	31	31	
	Connect Electrical to Kitchen Eqpt - 2C	1/20/2005	1/31/2005	62	31	31	
	Install Plumbing Fixtures - 2C	10/28/2004	11/8/2004	65	32.5	32.5	
	Install Toilet Partitions - 2C		11/16/2004		32.5	32.5	
	Install Toilet Accessories - 2C		11/22/2004	65	32.5	32.5	
	Install Wood Trim - 2C	12/20/2004	1/18/2005	16	8	8	
	Install Ballroom Acoustic Wall Panels - 2C	1/19/2005		16	8	8	
	Finish Paint - 2C	2/4/2005	2/24/2005	16	8	8	
	Install Wood Paneling - 2C	2/25/2005	3/3/2005	16	8	8	
	Install VWC - 2C	3/4/2005	3/31/2005	16	8	8	
	Trim Controls - 2C	4/1/2005	4/14/2005	16	8	8	
	Install VCT - 2C	2/25/2005	3/3/2005	39	19.5	19.5	
	Install Lockers - 2C	2/25/2005		47	23.5	23.5	
	Install Ballroom Operable Walls - 2C	2/4/2005	2/25/2005	25	12.5	12.5	
	Install Ballroom Projection Screens - 2C		12/20/2004		34	34	
	Install Casework - 2C	2/25/2005	3/14/2005	27	13.5	13.5	
	Install Ceiling Tile - 2C	1/5/2005	1/18/2005	56	28	28	
	Trim Electric - 2C	4/1/2005	4/11/2005	19	9.5	9.5	
	Install Ballroom Ceiling Tile - 2C	2/22/2005	3/2/2005	25	12.5	12.5	
	Install Doors & Hardware - 2C	1/5/2005	1/25/2005	61	30.5	30.5	
	Install Carpet - 2C	3/4/2005	3/24/2005	24	12	12	
	Install FEC - 2C	3/4/2005	3/4/2005	45	22.5	22.5	
	Install Wood Base - 2C	3/18/2005	4/4/2005	24	12	12	
	Install Rubber Base - 2C	3/4/2005	3/14/2005	39	19.5	19.5	
	Final Clean - 2C	4/15/2005	4/25/2005	16	8	8	
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Table A-1: Continued [pg. 16 of 20]

		Start-Finish Database			ATF Database		
ID	Description	Start	Finish	TF	Owner	Contractor	
	INTERIOR FINISH CONF CENTER - 1st Floor	7/13/2004	11/29/2004	35	17.5	17.5	
751	Spray Fireproof -1C	7/13/2004	7/16/2004	35	17.5	17.5	
752	Install CMU HM Frames -1C	7/19/2004	7/20/2004	35	17.5	17.5	
753	Complete Interior CMU Walls - 1C	7/21/2004	8/10/2004	35	17.5	17.5	
754	Install Boiler/Chiller Room Drywall Ceiling	8/11/2004	8/18/2004	119	59.5	59.5	
755	Install Mechanical Support Structure Grid	8/19/2004	8/24/2004	119	59.5	59.5	
756	Pour Equipment Pads	8/25/2004	8/30/2004	119	59.5	59.5	
757	Set Boiler	8/31/2004	9/1/2004	119	59.5	59.5	
758	Set Chiller	8/31/2004	9/1/2004	119	59.5	59.5	
759	Set AHU	8/31/2004	8/31/2004	120	60	60	
760	Set Pumps	8/31/2004	9/1/2004	119	59.5	59.5	
761	Set Control Air Compressor	8/31/2004	8/31/2004	120	60	60	
	Set Water Heaters	8/25/2004	8/25/2004	124	62	62	
	Complete Masonry MR Exterior Wall - C	9/2/2004	9/16/2004	119	59.5	59.5	
764	Install MR Domestic Water Piping	8/26/2004	8/31/2004	166	83	83	
765	Install MR HVAC Piping	9/17/2004	10/4/2004	119	59.5	59.5	
766	Install MR Ductwork	10/5/2004	10/25/2004	119	59.5	59.5	
767	Install MR Sprinkler Piping	10/26/2004	10/29/2004	119	59.5	59.5	
768	Install MR Electrical Roughin	9/10/2004	9/23/2004	152	76	76	
769	Install MR Controls	9/10/2004	9/23/2004	157	78.5	78.5	
770	Install MR Duct/Pipe Insulation	10/26/2004	11/8/2004	128	64	64	
	Install MR Lights	9/24/2004			76	76	
772	Set Switchgear	10/15/2004	10/22/2004		62	62	
773	Complete Electrical Connections to Equipment	11/1/2004	11/12/2004	119	59.5	59.5	
774	Install Permanent Electric Power	11/15/2004	11/16/2004	119	59.5	59.5	
775	Complete MR Pipe Identicication	11/9/2004	11/10/2004	128	64	64	
776	Equipment Startup	11/17/2004	11/23/2004	119	59.5	59.5	
777	Rough-In Plumbing - 1C	8/12/2004	8/25/2004	18	9	9	
778	Rough-In HVAC Piping - 1C	8/17/2004	8/30/2004	15	7.5	7.5	
779	Rough-In Ductwork - 1C	9/15/2004	9/28/2004	0	0	0	
780	Rough-In Sprinkler - 1C	8/17/2004	8/24/2004	43	21.5	21.5	
781	Rough-In Electrical - 1C	8/17/2004	8/30/2004	28	14	14	
782	Insulate Plumbing Pipe - 1C	8/26/2004	9/2/2004	29	14.5	14.5	
	Insulate HVAC Pipe - 1C	8/31/2004	9/8/2004	26	13	13	
784	Insulate Duct - 1C	10/6/2004	10/15/2004	15	7.5	7.5	
785	Pull Electric Wire to Panels - 1C	8/31/2004	9/3/2004	160	80	80	
	Paint Base & 1st Coat - 1C	8/11/2004	8/20/2004	163	81.5	81.5	
	Install Drywall Ceilings - 1C		10/21/2004		62	62	
788	Install Acoustic Ceiling Grids - 1C	10/22/2004	10/26/2004	124	62	62	
	Install Control Rough-Ins - 1C	10/27/2004	11/4/2004	131	65.5	65.5	
790	Trim Above Ceiling Mechnical - 1C	10/27/2004	11/1/2004	129	64.5	64.5	
791	Install Lights - 1C	10/27/2004	11/1/2004	124	62	62	
792	install Sprinkler Heads - 1C	10/27/2004	10/28/2004	131	65.5	65.5	
793	Finish Paint - 1C	11/2/2004	11/8/2004	124	62	62	
	Trim Controls - 1C	11/5/2004		131	65.5	65.5	
795	Install VCT - 1C	11/9/2004			62	62	
	Install Ceiling Tile - 1C		11/15/2004		62.5	62.5	
797	Trim Electric - 1C	11/9/2004	11/15/2004	125	62.5	62.5	
	Install Doors & Hardware - 1C		11/15/2004		62	62	
	Install FEC - 1C	11/16/2004	11/16/2004	124	62	62	
800	Install Rubber Base - 1C	11/12/2004	11/15/2004	125	62.5	62.5	

Table A-1: Continued [pg. 17 of 20]

		Start-Finish Database		е	ATF Database	
ID	Description	Start	Finish	TF	Owner	Contractor
	Final Clean - 1C		11/29/2004		59.5	59.5
	FOUNDATION - ALUMNI CENTER		11/24/2003		71.5	71.5
	Layout Major Axis Lines - A		7/16/2003		71.5	71.5
	Probe Holes	7/17/2003		143	71.5	71.5
	Layout Footings - A	9/3/2003	9/5/2003	120	60	60
	Excavate Footings - A	9/8/2003	9/25/2003		60	60
	Form and Place Footings - A	9/9/2003	9/26/2003		60	60
	Form and Place Concrete Walls - A	9/15/2003	9/24/2003	123	61.5	61.5
	Waterproof Walls - A	9/25/2003			66.5	66.5
	CMU to Finish Floor - A	9/23/2003			60	60
	U.G. Plumbing - A		10/15/2003		60	60
	Slab Stone Base - A		10/17/2003		60	60
	U.G. Electrical - A		10/17/2003		60	60
	Termite Treatment - A		10/20/2003		60	60
	Prep and Place Slab-on-Grade - A		10/23/2003		60	60
	Prep and Place Slab-on-Glade - A Prep and Place Concrete at Auditorium Steps - A		11/21/2003		102	102
		11/3/2003		120	60	60
	Set HM Frames - A CMU to Bearing - 2nd floor - A		11/4/2003 11/24/2003		60	60
	STRUCTURE ALUMNI CENTER	1/15/2003	4/5/2004	90	45	45
	Set Structural Steel - A	1/15/2004		90	45 45	45
	Set Bar Joists - A	2/5/2004	2/13/2004	90	45	
	2nd FI Lay Composite Metal Floor Deck - A		2/13/2004	90	45 45	45 45
		2/16/2004				
	2nd Fl Install Beam Studs - A	2/20/2004	2/25/2004 2/27/2004	90	45	45
	2nd FI Prep and Place Slab-on-Deck - A	2/26/2004		94	47	47 45
	3rd Fl Lay Composite Metal Floor Deck - A	2/20/2004	2/25/2004	90	45	45
	3rd FI Install Beam Studs - A	2/26/2004	3/2/2004	90 94	45	45
	3rd Fl Prep and Place Slab-on-Deck - A	3/1/2004 2/16/2004	3/2/2004		47 45	47 45
	Set Bar Joists - Roof - A		2/25/2004	90		45 45
	Install Metal Roof Deck - A	2/26/2004	3/2/2004	90	45	45 45
	Roof Install Beam Studs - A Form & Pour CRU #2 Mech Slab on Roof	3/3/2004	3/3/2004	90	45 45	45 45
		3/4/2004	3/8/2004	90	45	45
	Set CRU #2 Mech Eqpt On Roof	3/9/2004	3/12/2004	90	45	45
	Metal Stud Framing at Roof - A	3/15/2004	3/30/2004	91	45.5	45.5
	Install Attic Walkway	3/31/2004	4/5/2004	110	55	55
	ROOF ALUMNI CENTER	3/31/2004	7/6/2004	91	45.5	45.5
	Metal Roofing - A	3/31/2004	4/27/2004	91	45.5	45.5
	Wood Blocking - A	3/31/2004	4/9/2004	109	54.5	54.5
	Roof Insulation - A	4/28/2004	5/5/2004	91	45.5	45.5
	Roof Membrane - A	5/6/2004	5/13/2004		45.5	45.5
	Miscellaneous Metal Flashing - A	5/14/2004	5/25/2004	233	116.5	116.5
	Roof Scuppers - A	5/26/2004	6/1/2004	233	116.5	116.5
	Gutter and Downspouts - A	6/21/2004	7/6/2004	220	110	110
	EXTERIOR VENEER ALUMNI CENTER	6/15/2004	12/21/2004	25	12.5	12.5
	Install East CMU Exterior Walls - A	6/15/2004	6/25/2004	25	12.5	12.5
	Install South CMU Exterior Walls - A	6/28/2004	7/12/2004	25	12.5	12.5
	Install West CMU Exterior Walls - A	7/13/2004	7/23/2004	25	12.5	12.5
	Install North CMU Exterior Walls - A	7/26/2004	8/5/2004	25	12.5	12.5
	Install Precast Windows East Side - A	6/28/2004	7/8/2004	79	39.5	39.5
	Install Precast Windows South Side- A	7/13/2004	7/23/2004	81	40.5	40.5
850	Install Precast Windows West Side - A	7/26/2004	8/2/2004	90	45	45

Table A-1: Continued [pg. 18 of 20]

		Start-Fir	nish Databas	e	ATF D	atabase
ID	Description	Start	Finish	TF	Owner	Contractor
	Install Precast Windows North Side - A	8/6/2004	8/16/2004	93	46.5	46.5
	Dampproof & Set Hokie Stone East - A	9/2/2004	9/21/2004		20	20
	Dampproof & Set Hokie Stone South - A	9/22/2004			20	20
	Dampproof & Set Hokie Stone West - A		10/29/2004		20	20
	Dampproof & Set Hokie Stone North - A	11/1/2004			20	20
	Install Windows - A	11/2/2004			20	20
	Precast Concrete Coping - A	11/9/2004			54	54
	Set Exterior Door Frames - A	11/16/2004	12/1/2004	103	51.5	51.5
	Sealants - A	12/2/2004		103	51.5	51.5
	Clean Veneer Stone - A		12/21/2004		51.5	51.5
861	INTERIOR FINISH ALUMNI CENTER - 3RD FLOOR	8/6/2004	3/23/2005	25	12.5	12.5
	Install Spray Fireproofing - 3A	8/6/2004	8/12/2004	25	12.5	12.5
	Install Stairs - A	8/13/2004	8/26/2004	90	45	45
	Pour Pan Stairs - A	8/27/2004	8/31/2004	90	45	45
	Rough-In Plumbing - 3A	8/26/2004	9/7/2004	18	9	9
	Rough-In HVAC Piping - 3A	8/27/2004	9/10/2004	15	7.5	7.5
	Rough-In Ductwork - 3A	9/29/2004	10/19/2004	0	0	0
	Rough-In Sprinkler - 3A	8/25/2004	9/3/2004	43	21.5	21.5
	Rough-In Electrical - 3A	8/31/2004		28	14	14
	Insulate Plumbing Pipe - 3A	9/8/2004	9/15/2004	27	13.5	13.5
	Insulate HVAC Pipe - 3A	9/13/2004	9/20/2004	24	12	12
	Insulate Duct - 3A	10/20/2004		13	6.5	6.5
	Install Drywall HM Frames - 3A	8/13/2004	8/18/2004	25	12.5	12.5
	Install Studs & Drywall 1 Side - 3A	8/19/2004	9/3/2004	25	12.5	12.5
875	Pull Electric Wire to Panels - 3A	9/7/2004	9/16/2004	95	47.5	47.5
876	Install Wall Blocking - 3A	9/7/2004	9/9/2004	54	27	27
	Complete Drywall Walls - 3A	9/21/2004	10/18/2004	47	23.5	23.5
	Install Toilet Drywall Ceilings - 3A	11/1/2004	11/4/2004	44	22	22
	Install Drywall Bulkhead Ceilings - 3A	10/19/2004	11/1/2004	47	23.5	23.5
	Paint Base & 1st Coat - 3A	11/5/2004	11/18/2004	44	22	22
	Install Toilet Ceramic Tile - 3A		11/30/2004		23.5	23.5
882	Install Acoustical Grid - 3A	11/19/2004	12/2/2004	50	25	25
883	Rough-in Controls - 3A	12/3/2004	12/13/2004	92	46	46
884	Trim Mechanical Above Ceiling - 3A	12/3/2004	12/14/2004	50	25	25
885	Install Sprinkler Heads - 3A	12/3/2004	12/9/2004	53	26.5	26.5
886	Install Electrical Lights - 3A	12/3/2004	12/14/2004	50	25	25
887	Install Wood Trim - 3A	11/19/2004	12/8/2004	44	22	22
888	Install Casework - 3A	12/9/2004	12/22/2004	44	22	22
889	Install Plumbing Fixtures - 3A	12/1/2004	12/7/2004	47	23.5	23.5
890	Install Toilet Partitions - 3A	12/8/2004	12/13/2004	47	23.5	23.5
891	Install Toilet Accessories - 3A	12/14/2004		47	23.5	23.5
892	Finish Paint - 3A	12/23/2004	1/5/2005	44	22	22
893	Trim Controls - 3A	1/6/2005	1/10/2005	77	38.5	38.5
	Install VCT - 3A	1/6/2005	1/10/2005	70	35	35
	Install Ceiling Tile - 3A	12/15/2004	12/17/2004		27.5	27.5
	Install Projection Screens - 3A	12/15/2004	12/17/2004	91	45.5	45.5
897	Trim Electric - 3A	1/6/2005	1/11/2005	76	38	38
	Install Doors & Hardware - 3A	1/11/2005	1/19/2005	70	35	35
	Install Carpet - 3A	2/11/2005	3/3/2005	18	9	9
900	Install Wood Base - 3A	3/4/2005	3/17/2005	29	14.5	14.5

Table A-1: Continued [pg. 19 of 20]

D Description Start Finish TF Owner Contractor		Start-Finish Database			ATF Database		
901 Install Rubber Base - 3A	ID Description	Start	Einich	TE	Owner	Contractor	
902 Inta Clean - 3A 3/18/2005 3/23/2005 29 14.5 14.5 14.5 93 11.5 11.5 93 11.5 11.5 94 Install Spray Fireproofing - 2A 9/13/2004 3/19/2004 30 15 15 15 905 80ugh-In Plumbing - 2A 9/13/2004 3/19/2004 15 7.5 7.5 907 80ugh-In Plumbing - 2A 9/13/2004 10/1/2004 15 7.5 7.5 907 80ugh-In Ductwork - 2A 10/20/2004 11/19/2004 0 0 0 0 0 0 0 0 0							
BOS INTERIOR FINISH ALUMNI CENTER - 2ND FLOOR							
God Install Spray Fireproofing - 2A				_			
905 Rough-In Plumbing - 2A							
Section Forward Forw							
907 Rough-In Ductwork - 2A 10/20/2004 11/9/2004 0 0 0 0 0 0 0 0 0							
Sop Rough-In Sprinkler - 2A 97/72004 97/22004 43 21.5 21.5 20.5							
909 Rough-In Electrical - 2A				_		_	
1910 Insulate Plumbing Pipe - 2A 9/29/2004 10/12/2004 18 9 9 9 9 11 Insulate HVAC Pipe - 2A 10/4/2004 10/15/2004 15 7.5 7.5 7.5 7.5 913 Insulate Duct - 2A 11/4/2004 11/17/2004 10 5 5 913 Install Drywall HM Frames - 2A 8/20/2004 8/24/2004 33 16.5 16.5 16.5 16.9 19 19 19 19 19 19 19	200 Rough In Floatrical 2A						
Insulate HVAC Pipe - 2A							
11/14/2004 11/17/2004 10 5 5 5 5 5 5 5 5 5							
1913 Install Drywall HM Frames - 2A							
914 Install Studs & Drywall 1 Side - 2A 9/7/2004 9/24/2004 25 12.5 12.5 12.5 1915 Pull Electric Wire to Panels - 2A 10/8/2004 10/19/2004 63 31.5 31.5 31.5 31.5 1916 Install Wall Blocking - 2A 9/27/2004 9/30/2004 26 13 13 13 1917 Complete Drywall Walls - 2C 10/18/2004 11/10/2004 15 7.5 7.5 7.5 7.5 918 Install Toilet Drywall Ceilings - 2A 11/18/2004 11/10/2004 15 7.5 7.5 7.5 919 Install Drywall Bulkhead Ceilings - 2A 11/18/2004 12/12/2004 10 5 5 5 920 Paint Base & 1st Coat - 2A 12/8/2004 12/12/2004 10 5 5 5 921 Install Toilet Ceramic Tile - 2A 11/28/2004 12/21/2004 10 5 5 5 921 Install Toilet Ceramic Tile - 2A 11/28/2004 12/21/2004 16/2005 10 5 5 5 922 Install Acoustical Grid - 2A 17/2005 1/18/2005 76 38 38 924 Trim Mechanical Above Ceiling - 2A 17/2005 1/18/2005 76 38 38 924 Trim Mechanical Above Ceiling - 2A 17/2005 1/18/2005 76 38 38 925 Install Sprinkler Heads - 2A 17/2005 1/13/2005 10 5 5 5 927 Install Wall Paneling - 2A 1/21/2005 1/28/2005 10 5 5 5 928 Install Wood Trim - 2A 1/31/2005 1/28/2005 10 5 5 5 928 Install Casework - 2A 2/16/2005 2/25/2005 10 5 5 5 930 Install Diet Partitions - 2A 1/21/3/2004 1/21/2/2004 55 27.5 27.5 933 Install Toilet Partitions - 2A 1/21/3/2005 1/28/2005 10 5 5 5 934 Trim Controls - 2A 1/21/3/2005 1/28/2005 10 5 5 5 936 Install Oriet Partitions - 2A 1/21/2005 1/28/2005 10 5 5 5 936 Install Oriet Partitions - 2A 1/21/2005 1/28/2005 10 5 5 5 936 Install Oriet Partitions - 2A 1/21/2005 1/28/2005 10 5 5 5 936 Install Oriet Partitions - 2A 1/21/2005 1/21/2005 1/25/2005 1/25/2005 1/25/2005 1/25/2005 1/25/2005 1/25/2005 1/25/2005 1/25/2005 1/25/2005 1/25/2005 1/25/2005 1/25/2005 1/25/2005 1/25/2005							
915 Pull Electric Wire to Panels - 2A							
916 Install Wall Blocking - 2A							
917 Complete Drywall Walls - 2C							
918 Install Toilet Drywall Ceilings - 2A							
919 Install Drywall Bulkhead Ceilings - 2A							
920 Paint Base & 1st Coat - 2A							
921 Install Toilet Ceramic Tile - 2A				_			
922 Install Acoustical Grid - 2A							
923 Rough-in Controls - 2A							
924 Trim Mechanical Above Ceiling - 2A 1/7/2005 1/17/2005 39 19.5 19.5 925 Install Sprinkler Heads - 2A 177/2005 1/13/2005 41 20.5 20.5 926 Install Electrical Lights - 2A 1/7/2005 1/20/2005 10 5 5 927 Install Wall Paneling - 2A 1/21/2005 1/28/2005 10 5 5 928 Install Wood Trim - 2A 1/31/2005 2/15/2005 10 5 5 929 Install Casework - 2A 2/16/2005 2/25/2005 10 5 5 930 Install Plumbing Fixtures - 2A 12/16/2004 12/10/2004 55 27.5 27.5 931 Install Toilet Partitions - 2A 12/13/2004 12/16/2004 55 27.5 27.5 932 Install Toilet Accessories - 2A 12/17/2004 12/16/2004 55 27.5 27.5 933 Finish Paint - 2A 12/28/2005 3/15/2005 10 5 5 934 Trim Controls - 2A 3/16/2005 3/17/2005 10 5 5 935 Install VCT - 2							
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929 Install Casework - 2A							
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940 Install Carpet - 2A 3/16/2005 3/29/2005 10 5 5 941 Install Wood Base - 2A 3/23/2005 4/5/2005 20 10 10 942 Install Rubber Base - 2A 3/30/2005 4/5/2005 20 10 10 943 Final Clean - 2A 4/7/2005 4/13/2005 19 9.5 9.5 944 INTERIOR FINISH ALUMNI CENTER - 1st FLOOR 8/20/2004 5/18/2005 0 0 0 945 Install Spray Fireproofing - 1A 8/20/2004 8/27/2004 37 18.5 18.5 946 Rough-In Plumbing - 1A 9/29/2004 10/14/2004 23 11.5 11.5 947 Rough-In HVAC Piping - 1A 10/4/2004 10/19/2004 20 10 10 948 Rough-In Ductwork - 1A 11/10/2004 11/29/2004 0 0 0 949 Rough-In Sprinkler - 1A 9/23/2004 10/4/2004 43 21.5 21.5	938 Trim Electric - 2A	3/16/2005	3/21/2005	31	15.5	15.5	
941 Install Wood Base - 2A 3/23/2005 4/5/2005 20 10 10 942 Install Rubber Base - 2A 3/30/2005 4/5/2005 20 10 10 943 Final Clean - 2A 4/7/2005 4/13/2005 19 9.5 9.5 944 INTERIOR FINISH ALUMNI CENTER - 1st FLOOR 8/20/2004 5/18/2005 0 0 0 945 Install Spray Fireproofing - 1A 8/20/2004 8/27/2004 37 18.5 18.5 946 Rough-In Plumbing - 1A 9/29/2004 10/14/2004 23 11.5 11.5 947 Rough-In HVAC Piping - 1A 10/4/2004 10/19/2004 20 10 10 948 Rough-In Ductwork - 1A 11/10/2004 11/29/2004 0 0 0 949 Rough-In Sprinkler - 1A 9/23/2004 10/4/2004 43 21.5 21.5	939 Install Doors & Hardware - 2A	3/30/2005	4/6/2005	19	9.5	9.5	
942 Install Rubber Base - 2A 3/30/2005 4/5/2005 20 10 10 943 Final Clean - 2A 4/7/2005 4/13/2005 19 9.5 9.5 944 INTERIOR FINISH ALUMNI CENTER - 1st FLOOR 8/20/2004 5/18/2005 0 0 0 945 Install Spray Fireproofing - 1A 8/20/2004 8/27/2004 37 18.5 18.5 946 Rough-In Plumbing - 1A 9/29/2004 10/14/2004 23 11.5 11.5 947 Rough-In HVAC Piping - 1A 10/4/2004 10/19/2004 20 10 10 948 Rough-In Ductwork - 1A 11/10/2004 11/29/2004 0 0 0 949 Rough-In Sprinkler - 1A 9/23/2004 10/4/2004 43 21.5 21.5	940 Install Carpet - 2A	3/16/2005	3/29/2005	10	5	5	
943 Final Clean - 2A 4/7/2005 4/13/2005 19 9.5 9.5 944 INTERIOR FINISH ALUMNI CENTER - 1st FLOOR 8/20/2004 5/18/2005 0 0 0 945 Install Spray Fireproofing - 1A 8/20/2004 8/27/2004 37 18.5 18.5 946 Rough-In Plumbing - 1A 9/29/2004 10/14/2004 23 11.5 11.5 947 Rough-In HVAC Piping - 1A 10/4/2004 10/19/2004 20 10 10 948 Rough-In Ductwork - 1A 11/10/2004 11/29/2004 0 0 0 949 Rough-In Sprinkler - 1A 9/23/2004 10/4/2004 43 21.5 21.5		3/23/2005		20	10	10	
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945 Install Spray Fireproofing - 1A 8/20/2004 8/27/2004 37 18.5 18.5 946 Rough-In Plumbing - 1A 9/29/2004 10/14/2004 23 11.5 11.5 947 Rough-In HVAC Piping - 1A 10/4/2004 10/19/2004 20 10 10 948 Rough-In Ductwork - 1A 11/10/2004 11/29/2004 0 0 0 949 Rough-In Sprinkler - 1A 9/23/2004 10/4/2004 43 21.5 21.5	943 Final Clean - 2A	4/7/2005	4/13/2005	19	9.5	9.5	
945 Install Spray Fireproofing - 1A 8/20/2004 8/27/2004 37 18.5 18.5 946 Rough-In Plumbing - 1A 9/29/2004 10/14/2004 23 11.5 11.5 947 Rough-In HVAC Piping - 1A 10/4/2004 10/19/2004 20 10 10 948 Rough-In Ductwork - 1A 11/10/2004 11/29/2004 0 0 0 949 Rough-In Sprinkler - 1A 9/23/2004 10/4/2004 43 21.5 21.5	944 INTERIOR FINISH ALUMNI CENTER - 1st FLOOR	8/20/2004	5/18/2005	0	0	0	
946 Rough-In Plumbing - 1A 9/29/2004 10/14/2004 23 11.5 11.5 947 Rough-In HVAC Piping - 1A 10/4/2004 10/19/2004 20 10 10 948 Rough-In Ductwork - 1A 11/10/2004 11/29/2004 0 0 0 949 Rough-In Sprinkler - 1A 9/23/2004 10/4/2004 43 21.5 21.5	945 Install Spray Fireproofing - 1A			37	18.5	18.5	
947 Rough-In HVAC Piping - 1A 10/4/2004 10/19/2004 20 10 10 948 Rough-In Ductwork - 1A 11/10/2004 11/29/2004 0 0 0 949 Rough-In Sprinkler - 1A 9/23/2004 10/4/2004 43 21.5 21.5				23			
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949 Rough-In Sprinkler - 1A 9/23/2004 10/4/2004 43 21.5 21.5							
						21.5	

Table A-1: Continued [pg. 20 of 20]

		Start-Fir	nish Database	е	ATF Database		
ID	Description	Start	Finish	TF	Owner	Contractor	
	Insulate Plumbing Pipe - 1A		10/26/2004		11.5	11.5	
	Insulate HVAC Pipe - 1A		10/29/2004	20	10	10	
	Insulate Duct - 1A	11/22/2004		0	0	0	
	Install Drywall HM Frames - 1A	8/30/2004		37	18.5	18.5	
	Install Studs & Drywall 1 Side - 1A		10/15/2004	25	12.5	12.5	
	Pull Electric Wire to Panels - 1A		10/29/2004	61	30.5	30.5	
	Install Wall Blocking - 1A		10/22/2004	25	12.5	12.5	
	Paint Black Auditorium Ceiling - 1A		11/5/2004	24	12	12	
	Install Auditorium Clouds - 1A		12/16/2004	6	3	3	
960	Complete Drywall Walls - 1C	11/1/2004	11/24/2004	20	10	10	
961	Install Toilet Drywall Ceilings - 1A		12/13/2004	9	4.5	4.5	
	Install Drywall Bulkhead Ceilings - 1A	12/6/2004	12/27/2004	0	0	0	
	Install Terrazzo Floor - 1A	12/28/2004	1/13/2005	23	11.5	11.5	
964	Paint Base & 1st Coat - 1A	12/28/2004	1/11/2005	0	0	0	
965	Install Toilet Ceramic Tile - 1A	12/14/2004	12/23/2004	45	22.5	22.5	
966	Install Acoustical Grid - 1A	1/12/2005	1/25/2005	0	0	0	
967	Rough-in Controls - 1A	1/26/2005	2/4/2005	0	0	0	
968	Trim Mechanical Above Ceiling - 1A	1/26/2005	2/4/2005	0	0	0	
969	Install Sprinkler Heads - 1A	1/26/2005	2/2/2005	2	1	1	
970	Install Electrical Lights - 1A	1/26/2005	2/8/2005	3	1.5	1.5	
	Install Auditorium Fiberglas Wall Panels - 1A	1/26/2005	2/1/2005	3	1.5	1.5	
	Install Wood Paneling - 1A	2/7/2005	2/22/2005	0	0	0	
	Install Wood Trim - 1A	2/16/2005	3/1/2005	0	0	0	
	Install Casework - 1A	3/2/2005	3/17/2005	0	0	0	
	Install Plumbing Fixtures - 1A	12/27/2004	1/3/2005	45	22.5	22.5	
	Install Toilet Partitions - 1A	1/4/2005	1/7/2005	45	22.5	22.5	
	Install Toilet Accessories - 1A	1/10/2005	1/13/2005	45	22.5	22.5	
	Finish Paint - 1A	3/18/2005	3/31/2005	0	0	0	
	Trim Controls - 1A	4/1/2005	4/4/2005	26	13	13	
	Install VCT - 1A	4/1/2005	4/4/2005	0	0	0	
	Install Ceiling Tile - 1A	2/9/2005	2/11/2005	42	21	21	
	Install Projection Screens - 1A	4/1/2005	4/5/2005	25	12.5	12.5	
	Trim Electric - 1A	4/1/2005	4/7/2005	23	11.5	11.5	
984	Install Doors and Hardware - 1A	4/5/2005	4/14/2005	0	0	0	
	Install Carpet - 1A	4/1/2005	4/14/2005	8	4	4	
	Install Cork Floor - 1A	4/15/2005	4/26/2005	0	0	0	
	Install Wood Base - 1A	4/20/2005	5/3/2005	5	2.5	2.5	
	Owner Installed Casework - 1A	4/27/2005	5/2/2005	6	3	3	
	Install Wood/Glass Casework - 1A	4/27/2005		0	0	0	
	Install Rubber Base - 1A	4/5/2005	4/7/2005	23	11.5	11.5	
	Final Clean - 1A	5/11/2005	5/17/2005	0	0	0	
	Project Finish	5/18/2005	5/18/2005	0	0	0	
993	SUBSTANTIAL COMPLETION	5/19/2005	5/19/2005	0	0	0	

Appendix B

Start-Finish Database for June 2003

Table B-1: The Start-Finish database for the June 2003 Update

	As-Planr	ned Schedule	Э	20-	Jun-03		June 24, 200	03 (Reschedu	uled)
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
1	4/15/2003	4/15/2003	0	4/21/2003	4/21/2003	0	4/21/2003	4/21/2003	0
2	4/15/2003	5/29/2003	75	4/15/2003	7/24/2003	386	5/7/2003	8/8/2003	381
3	4/15/2003	4/24/2003	273	4/15/2003	4/24/2003	259	6/25/2003	7/7/2003	215
4	5/9/2003	5/9/2003	273	5/9/2003	5/9/2003	259	7/22/2003	7/22/2003	215
5	4/15/2003	4/15/2003	87	6/20/2003	6/20/2003	26	6/20/2003	6/25/2003	29
6	4/30/2003	4/30/2003	87	7/8/2003	7/8/2003	26	7/11/2003	7/11/2003	29
7	4/15/2003	4/15/2003	200	4/15/2003	4/15/2003	186	6/25/2003	6/25/2003	142
8	4/30/2003	4/30/2003	200	4/30/2003	4/30/2003	186	7/11/2003	7/11/2003	142
9	4/15/2003	4/15/2003	103	4/15/2003	4/15/2003	89	6/25/2003	6/25/2003	45
10	4/30/2003	4/30/2003	103	4/30/2003	4/30/2003	89	7/11/2003	7/11/2003	45
11	4/15/2003	4/15/2003	202	4/15/2003	4/15/2003	188	6/25/2003	6/25/2003	144
12	4/30/2003	4/30/2003	202	4/30/2003	4/30/2003	188	7/11/2003	7/11/2003	144
13	4/15/2003	4/17/2003	75	6/9/2003	6/11/2003	0	6/9/2003	6/11/2003	0
14	5/2/2003	5/2/2003	75	6/26/2003	6/26/2003	23	6/26/2003	6/26/2003	29
15	4/15/2003	4/15/2003	130	4/15/2003	4/15/2003	116	6/25/2003	6/25/2003	72
16	4/30/2003	4/30/2003	130	4/30/2003	4/30/2003	116	7/11/2003	7/11/2003	72
17	4/15/2003	4/15/2003	225	4/15/2003	4/15/2003	211	6/25/2003	6/25/2003	167
18	4/30/2003	4/30/2003	225	4/30/2003	4/30/2003	211	7/11/2003	7/11/2003	167
19	4/15/2003	4/23/2003	144	4/15/2003	4/23/2003	130	6/25/2003	7/3/2003	86
20	5/8/2003	5/8/2003	144	5/8/2003	5/8/2003	130	7/21/2003	7/21/2003	86
21	4/15/2003	5/1/2003	97	6/20/2003	7/9/2003	36	6/20/2003	7/9/2003	42
22	5/16/2003	5/16/2003	97	7/24/2003	7/24/2003	36	7/24/2003	7/24/2003	42
23	4/15/2003	4/15/2003	430	4/15/2003	4/15/2003	416	6/25/2003	6/25/2003	372
24	4/30/2003	4/30/2003	430	4/30/2003	4/30/2003	416	7/11/2003	7/11/2003	372
25	4/15/2003	4/22/2003	81	6/11/2003	6/18/2003	0	6/11/2003	6/18/2003	0
26	5/7/2003	5/7/2003	81	7/3/2003	7/3/2003	27	7/3/2003	7/3/2003	33
27	4/15/2003	4/15/2003	200	4/15/2003	4/15/2003	186	6/25/2003	6/25/2003	142
28	4/30/2003	4/30/2003	200	4/30/2003	4/30/2003	186	7/11/2003	7/11/2003	142
29	4/15/2003	4/17/2003	96	6/3/2003	6/5/2003	0	6/3/2003	6/5/2003	0
30	5/2/2003	5/2/2003	96	6/20/2003	6/20/2003	48	6/25/2003	6/25/2003	51
31	4/15/2003	4/22/2003	180	4/15/2003	4/22/2003	166	6/25/2003	7/2/2003	122
32	5/7/2003	5/7/2003	180	5/7/2003	5/7/2003	166	7/18/2003	7/18/2003	122
33	4/15/2003	4/22/2003	272	4/15/2003	4/22/2003	258	6/25/2003	7/2/2003	214
34	5/7/2003	5/7/2003	272	5/7/2003	5/7/2003	258	7/18/2003	7/18/2003	214
35 36	4/15/2003 4/30/2003	4/15/2003 4/30/2003	459 459	4/15/2003 4/30/2003	4/15/2003 4/30/2003	445 445	6/25/2003 7/11/2003	6/25/2003 7/11/2003	401 401
36	4/30/2003	4/30/2003	459 295	4/30/2003 4/15/2003	4/30/2003	281	6/25/2003	6/25/2003	237
38	4/30/2003	4/30/2003	295	4/30/2003	4/30/2003	281	7/11/2003	7/11/2003	237
39	4/15/2003	4/22/2003	411	4/15/2003	4/22/2003	397	6/25/2003	7/2/2003	353
40	5/21/2003	5/21/2003	411	5/21/2003	5/21/2003	397	8/1/2003	8/1/2003	353
41	4/15/2003	4/15/2003	292	4/15/2003	4/15/2003		6/25/2003	6/25/2003	234
42	4/30/2003	4/30/2003	292	4/30/2003	4/30/2003		7/11/2003	7/11/2003	234
43	4/15/2003	4/15/2003	369	4/15/2003	4/15/2003	355	6/25/2003	6/25/2003	311
44	4/30/2003	4/30/2003	369	4/30/2003	4/30/2003		7/11/2003	7/11/2003	311
45	4/15/2003	4/15/2003	450	4/15/2003	4/15/2003		6/25/2003	6/25/2003	392
46	4/30/2003	4/30/2003	450	4/30/2003	4/30/2003	436	7/11/2003	7/11/2003	392
47	4/15/2003	4/15/2003	243	4/15/2003	4/15/2003	229	6/25/2003	6/25/2003	185
48	4/30/2003	4/30/2003	243	4/30/2003	4/30/2003	229	7/11/2003	7/11/2003	185
49	4/15/2003	4/15/2003	144	4/15/2003	4/15/2003	130	6/25/2003	6/25/2003	86
50	4/15/2003	4/15/2003	426	4/15/2003	4/15/2003	412	6/25/2003	6/25/2003	368
ت				. ,,,,					

Table B-1: Continued [pg. 2 of 20]

	As-Plant	ned Schedule	:	20-	Jun-03		June 24, 200	03 (Resched	uled)
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
51	4/30/2003	4/30/2003	426	4/30/2003	4/30/2003	412	7/11/2003	7/11/2003	368
52	4/15/2003	4/15/2003	416	6/16/2003	6/16/2003	359	6/16/2003	6/25/2003	358
53	4/30/2003	4/30/2003	416	7/1/2003	7/1/2003	359	7/11/2003	7/11/2003	358
54	4/15/2003	4/15/2003	298	4/15/2003	4/15/2003	284	6/25/2003	6/25/2003	240
55	5/29/2003	5/29/2003	298	5/29/2003	5/29/2003	284	8/8/2003	8/8/2003	240
56	4/15/2003	4/15/2003	414	4/15/2003	4/15/2003	400	6/25/2003	6/25/2003	356
57	4/30/2003	4/30/2003	414	4/30/2003	4/30/2003	400	7/11/2003	7/11/2003	356
58	4/15/2003	4/25/2003	406	5/7/2003	5/19/2003	0	5/7/2003	5/19/2003	0
59	5/12/2003	5/12/2003	406	6/4/2003	6/4/2003	376	6/25/2003	6/25/2003	367
60	4/15/2003	4/15/2003	416	4/15/2003	4/15/2003	402	6/25/2003	6/25/2003	358
61	4/30/2003	4/30/2003	416	4/30/2003	4/30/2003	402	7/11/2003	7/11/2003	358
62	4/15/2003	4/15/2003	288	4/15/2003	4/15/2003	274	6/25/2003	6/25/2003	230
63	4/30/2003	4/30/2003	288	4/30/2003	4/30/2003	274	7/11/2003	7/11/2003	230
64	4/15/2003	4/15/2003	141	4/15/2003	4/15/2003	127	6/25/2003	6/25/2003	83
65	4/30/2003	4/30/2003	141	4/30/2003	4/30/2003	127	7/11/2003	7/11/2003	83
66	4/15/2003	4/15/2003	431	4/15/2003	4/15/2003	417	6/25/2003	6/25/2003	373
67	4/30/2003	4/30/2003	431	4/30/2003	4/30/2003	417	7/11/2003	7/11/2003	373
68	4/15/2003	4/15/2003	434	4/15/2003	4/15/2003	420	6/25/2003	6/25/2003	376
69	4/30/2003	4/30/2003	434	4/30/2003	4/30/2003	420	7/11/2003	7/11/2003	376
70	4/15/2003	4/15/2003	302	4/15/2003	4/15/2003	288	6/25/2003	6/25/2003	244
71	4/30/2003	4/30/2003	302	4/30/2003	4/30/2003	288	7/11/2003	7/11/2003	244
72	4/15/2003	4/15/2003	404	4/15/2003	4/15/2003	390	6/25/2003	6/25/2003	346
73	4/30/2003	4/30/2003	404	4/30/2003	4/30/2003	390	7/11/2003	7/11/2003	346
74	4/15/2003	4/15/2003	424	4/15/2003	4/15/2003	410	6/25/2003	6/25/2003	366
75	4/30/2003	4/30/2003	424	4/30/2003	4/30/2003	410	7/11/2003	7/11/2003	366
76	4/15/2003	4/15/2003	355	4/15/2003	4/15/2003	341	6/25/2003	6/25/2003	297
77	4/30/2003	4/30/2003	355	4/30/2003	4/30/2003	341	7/11/2003	7/11/2003	297
78	4/16/2003	5/19/2003	0	4/22/2003	5/28/2003	0	4/22/2003	5/28/2003	0
79	4/16/2003	4/16/2003	0	4/22/2003	4/22/2003	0	4/22/2003	4/22/2003	0
80	4/17/2003	5/2/2003	0	4/23/2003	5/8/2003	0	4/23/2003	5/8/2003	0
81	4/17/2003	4/17/2003	22	5/13/2003	5/13/2003	0	5/13/2003	5/13/2003	0
82	4/18/2003	4/21/2003	22	5/6/2003	5/7/2003	0	5/6/2003	5/7/2003	0
83	5/5/2003	5/19/2003	287	5/12/2003	5/27/2003	0	5/12/2003	5/27/2003	0
84	5/19/2003	5/19/2003	287	5/27/2003	5/28/2003	0	5/27/2003	5/28/2003	0
85	4/17/2003	5/14/2003	8	4/23/2003	5/8/2003	0	4/23/2003	5/8/2003	0
86		4/18/2003	26		4/24/2003	0			0
87	5/5/2003	5/14/2003	8	4/29/2003	5/8/2003	0	4/29/2003	5/8/2003	0
88	4/22/2003	4/24/2003	22		5/8/2003	0	5/6/2003	5/8/2003	0
89	5/5/2003	7/29/2003	0	4/25/2003	8/7/2003		4/25/2003	8/26/2003	
90	5/5/2003	5/9/2003	0	4/30/2003	5/6/2003	500	4/30/2003	7/1/2003	467
91	5/12/2003	5/27/2003	0	4/25/2003	5/9/2003	0	4/25/2003	5/9/2003	0
92	5/27/2003	5/27/2003	0	4/25/2003	5/13/2003	0	4/25/2003	5/13/2003	0
93	5/28/2003	6/9/2003	0	6/6/2003	6/18/2003	-12	6/6/2003	7/8/2003	207
94	6/10/2003	6/12/2003		6/19/2003	6/23/2003	220	7/9/2003	7/11/2003	213
95	6/13/2003		241	6/24/2003	6/26/2003	220	7/14/2003	7/16/2003	213
96	6/18/2003		241	6/27/2003	7/25/2003	220	7/17/2003	8/13/2003	213
97	7/17/2003		241	7/28/2003	8/1/2003	220	8/14/2003	8/20/2003	213
98	7/24/2003		241	8/4/2003	8/7/2003	220	8/21/2003	8/26/2003	213
99	6/18/2003		242	6/27/2003	7/1/2003	221	7/17/2003	7/21/2003	214
100	6/23/2003	6/25/2003	242	7/2/2003	7/7/2003	221	7/22/2003	7/24/2003	214

Table B-1: Continued [pg. 3 of 20]

ID Start Finish TF Start Finish TF Start Finish TF Start Finish TF Start Finish 101 6/26/2003 7/17/2003 242 7/8/2003 7/28/2003 221 7/25/2003 8/14/2003 102 6/10/2003 6/25/2003 0 6/19/2003 7/7/2003 -12 7/9/2003 7/24/2003 103 7/18/2003 7/28/2003 242 7/29/2003 8/6/2003 221 8/15/2003 8/25/2003 104 6/10/2003 7/31/2003 273 6/19/2003 8/11/2003 252 7/9/2003 8/28/2003 105 6/10/2003 6/10/2003 273 6/19/2003 6/19/2003 252 7/9/2003 7/9/2003 106 6/11/2003 6/11/2003 273 6/20/2003 6/20/2003 252 7/11/2003 7/11/2003 107 6/12/2003 6/18/2003 273 6/25/2003 6/27/2003 252 7/11/2003 7/11/2003	TF 214 207
102 6/10/2003 6/25/2003 0 6/19/2003 7/7/2003 -12 7/9/2003 7/24/2003 103 7/18/2003 7/28/2003 242 7/29/2003 8/6/2003 221 8/15/2003 8/25/2003 104 6/10/2003 7/31/2003 273 6/19/2003 8/11/2003 252 7/9/2003 8/28/2003 105 6/10/2003 6/10/2003 273 6/19/2003 6/19/2003 252 7/9/2003 7/9/2003 106 6/11/2003 6/11/2003 273 6/20/2003 6/20/2003 252 7/10/2003 7/10/2003 107 6/12/2003 6/13/2003 273 6/23/2003 6/24/2003 252 7/11/2003 7/14/2003 108 6/16/2003 6/18/2003 273 6/25/2003 6/27/2003 252 7/15/2003 7/17/2003 109 6/19/2003 6/19/2003 273 6/30/2003 6/30/2003 252 7/18/2003 7/18/2003 110 6/20/2003 6/23/2003 273<	207
103 7/18/2003 7/28/2003 242 7/29/2003 8/6/2003 221 8/15/2003 8/25/2003 104 6/10/2003 7/31/2003 273 6/19/2003 8/11/2003 252 7/9/2003 8/28/2003 105 6/10/2003 6/10/2003 273 6/19/2003 6/19/2003 252 7/9/2003 7/9/2003 106 6/11/2003 6/11/2003 273 6/20/2003 6/20/2003 252 7/10/2003 7/10/2003 107 6/12/2003 6/13/2003 273 6/23/2003 6/24/2003 252 7/11/2003 7/14/2003 108 6/16/2003 6/18/2003 273 6/25/2003 6/27/2003 252 7/15/2003 7/17/2003 109 6/19/2003 6/19/2003 273 6/30/2003 6/30/2003 252 7/18/2003 7/18/2003 110 6/20/2003 6/20/2003 273 7/1/2003 7/1/2003 252 7/21/2003 7/21/2003 111 6/23/2003 6/23/2003 27	
104 6/10/2003 7/31/2003 273 6/19/2003 8/11/2003 252 7/9/2003 8/28/2003 105 6/10/2003 6/10/2003 273 6/19/2003 6/19/2003 252 7/9/2003 7/9/2003 106 6/11/2003 6/11/2003 273 6/20/2003 6/20/2003 252 7/10/2003 7/10/2003 107 6/12/2003 6/13/2003 273 6/23/2003 6/24/2003 252 7/11/2003 7/11/2003 108 6/16/2003 6/18/2003 273 6/25/2003 6/27/2003 252 7/15/2003 7/17/2003 109 6/19/2003 6/19/2003 273 6/30/2003 6/30/2003 252 7/18/2003 7/18/2003 110 6/20/2003 6/23/2003 273 7/1/2003 7/1/2003 252 7/21/2003 7/21/2003 111 6/23/2003 6/23/2003 273 7/2/2003 7/2/2003 252 7/22/2003 7/22/2003	044
105 6/10/2003 6/10/2003 273 6/19/2003 6/19/2003 252 7/9/2003 7/9/2003 106 6/11/2003 6/11/2003 273 6/20/2003 6/20/2003 252 7/10/2003 7/10/2003 107 6/12/2003 6/13/2003 273 6/23/2003 6/24/2003 252 7/11/2003 7/14/2003 108 6/16/2003 6/18/2003 273 6/25/2003 6/27/2003 252 7/15/2003 7/17/2003 109 6/19/2003 6/19/2003 273 6/30/2003 6/30/2003 252 7/18/2003 7/18/2003 110 6/20/2003 6/23/2003 273 7/1/2003 7/1/2003 252 7/21/2003 7/21/2003 111 6/23/2003 6/23/2003 273 7/2/2003 7/2/2003 252 7/22/2003 7/22/2003	214
106 6/11/2003 6/11/2003 273 6/20/2003 6/20/2003 252 7/10/2003 7/10/2003 107 6/12/2003 6/13/2003 273 6/23/2003 6/24/2003 252 7/11/2003 7/14/2003 108 6/16/2003 6/18/2003 273 6/25/2003 6/27/2003 252 7/15/2003 7/17/2003 109 6/19/2003 6/19/2003 273 6/30/2003 6/30/2003 252 7/18/2003 7/18/2003 110 6/20/2003 6/20/2003 273 7/1/2003 7/1/2003 252 7/21/2003 7/21/2003 111 6/23/2003 6/23/2003 273 7/2/2003 7/2/2003 252 7/22/2003 7/22/2003	245
107 6/12/2003 6/13/2003 273 6/23/2003 6/24/2003 252 7/11/2003 7/14/2003 108 6/16/2003 6/18/2003 273 6/25/2003 6/27/2003 252 7/15/2003 7/17/2003 109 6/19/2003 6/19/2003 273 6/30/2003 6/30/2003 252 7/18/2003 7/18/2003 110 6/20/2003 6/23/2003 273 7/1/2003 7/1/2003 252 7/21/2003 7/21/2003 111 6/23/2003 6/23/2003 273 7/2/2003 7/2/2003 252 7/22/2003 7/22/2003	245
108 6/16/2003 6/18/2003 273 6/25/2003 6/27/2003 252 7/15/2003 7/17/2003 109 6/19/2003 6/19/2003 273 6/30/2003 6/30/2003 252 7/18/2003 7/18/2003 110 6/20/2003 6/23/2003 273 7/1/2003 7/1/2003 252 7/21/2003 7/21/2003 111 6/23/2003 6/23/2003 273 7/2/2003 7/2/2003 252 7/22/2003 7/22/2003	245
109 6/19/2003 6/19/2003 273 6/30/2003 6/30/2003 252 7/18/2003 7/18/2003 110 6/20/2003 6/20/2003 273 7/1/2003 7/1/2003 252 7/21/2003 7/21/2003 111 6/23/2003 6/23/2003 273 7/2/2003 7/2/2003 252 7/22/2003 7/22/2003	245
110 6/20/2003 6/20/2003 273 7/1/2003 7/1/2003 252 7/21/2003 7/21/2003 111 6/23/2003 6/23/2003 273 7/2/2003 7/2/2003 252 7/22/2003 7/22/2003	245
111 6/23/2003 6/23/2003 273 7/2/2003 7/2/2003 252 7/22/2003 7/22/2003	245
	245
112 7/29/2003 7/31/2003 276 8/7/2003 8/11/2003 255 8/26/2003 8/28/2003	245
	248
113 6/13/2003 7/9/2003 0 6/6/2003 7/1/2003 226 6/6/2003 7/21/2003	219
114 6/13/2003 6/13/2003 0 6/6/2003 6/6/2003 226 6/6/2003 6/25/2003	219
115 6/16/2003 6/27/2003 0 6/9/2003 6/20/2003 226 6/26/2003 7/10/2003	219
116 6/30/2003 7/9/2003 0 6/23/2003 7/1/2003 226 7/11/2003 7/21/2003	219
117 7/10/2003 8/15/2003 235 7/2/2003 8/18/2003 220 7/22/2003 9/5/2003	213
118 7/10/2003 7/30/2003 235 7/2/2003 7/23/2003 226 7/22/2003 8/11/2003	219
119 7/31/2003 8/6/2003 235 7/24/2003 7/30/2003 226 8/12/2003 8/18/2003	219
120 8/7/2003 8/15/2003 235 8/8/2003 8/18/2003 220 8/27/2003 9/5/2003	213
121 8/7/2003 2/2/2004 242 7/31/2003 2/3/2004 233 8/19/2003 2/20/200 ⁴	226
122 8/7/2003 8/13/2003 373 7/31/2003 8/6/2003 364 8/19/2003 8/25/2003	357
123 8/18/2003 8/29/2003 235 8/19/2003 9/2/2003 220 9/8/2003 9/19/2003	213
124 9/2/2003 9/11/2003 235 9/3/2003 9/12/2003 220 9/22/2003 10/1/2003	213
125 9/12/2003 10/9/2003 235 9/15/2003 10/10/2003 220 10/2/2003 10/29/2003	213
126 10/10/2003 11/6/2003 235 10/13/2003 11/7/2003 220 10/30/2003 11/26/2003	213
127 11/7/2003 11/20/2003 235 11/10/2003 11/21/2003 220 12/1/2003 12/12/2003	213
128 9/12/2003 9/18/2003 266 9/15/2003 9/19/2003 251 10/2/2003 10/8/2003	244
129 10/10/2003 10/22/2003 251 10/13/2003 10/23/2003 236 10/30/2003 11/11/2003	229
130 10/23/2003 10/28/2003 251 10/24/2003 10/29/2003 236 11/12/2003 11/17/2003	229
131 10/29/2003 11/4/2003 251 10/30/2003 11/5/2003 236 11/18/2003 11/24/2003	229
132 11/21/2003 12/8/2003 235 11/24/2003 12/9/2003 220 12/15/2003 12/31/2003	213
133 12/9/2003 12/16/2003 235 12/10/2003 12/17/2003 220 1/5/2004 1/12/2004	213
134 12/17/2003 12/18/2003 235 12/18/2003 12/19/2003 220 1/13/2004 1/14/2004	213
135 11/5/2003 11/6/2003 381 11/6/2003 11/7/2003 366 11/25/2003 11/26/2003	359
136 12/19/2003 1/7/2004 235 12/22/2003 1/8/2004 220 1/15/2004 1/27/2004	213
137 1/8/2004 1/15/2004 235 1/9/2004 1/16/2004 220 1/28/2004 2/4/2004	
138 1/16/2004 1/21/2004 235 1/19/2004 1/22/2004 220 2/5/2004 2/10/2004	
139 1/22/2004 2/2/2004 235 1/23/2004 2/3/2004 220 2/11/2004 2/20/2004	
140 11/7/2003 8/5/2004 121 11/10/2003 7/16/2004 121 12/1/2003 7/26/2004	
141 11/7/2003 11/12/2003 272 11/10/2003 11/13/2003 257 12/1/2003 12/4/2003	
142 11/13/2003 11/17/2003 272 11/14/2003 11/18/2003 257 12/5/2003 12/9/2003	
143 11/18/2003 12/3/2003 272 11/19/2003 12/4/2003 257 12/10/2003 12/23/2003	
144 12/4/2003 12/17/2003 272 12/5/2003 12/18/2003 257 12/29/2003 1/13/2004	
145 12/18/2003 12/31/2003 272 12/19/2003 1/5/2004 257 1/14/2004 1/22/2004	250
146 7/27/2004 8/5/2004 72 7/7/2004 7/16/2004 72 7/15/2004 7/26/2004	72
147 2/3/2004 3/4/2004 235 2/4/2004 3/5/2004 220 2/23/2004 3/24/2004	
148 2/3/2004 2/12/2004 235 2/4/2004 2/13/2004 220 2/23/2004 3/3/2004	213
149 2/13/2004 2/17/2004 235 2/16/2004 2/18/2004 220 3/4/2004 3/8/2004	
150 2/18/2004 2/24/2004 235 2/19/2004 2/25/2004 220 3/9/2004 3/15/2004	

Table B-1: Continued [pg. 4 of 20]

	As-Plani	ned Schedule	е	20-	Jun-03		June 24, 20	03 (Resched	uled)
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
151	2/25/2004	3/2/2004	235	2/26/2004	3/3/2004	220	3/16/2004	3/22/2004	213
152	3/3/2004	3/4/2004	235	3/4/2004	3/5/2004	220	3/23/2004	3/24/2004	213
153	8/12/2004	10/14/2004	124	7/23/2004	9/24/2004	124	8/2/2004	10/4/2004	124
154	8/12/2004	8/18/2004	124	7/23/2004	7/29/2004	124	8/2/2004	8/6/2004	124
155	8/19/2004	9/1/2004	124	7/30/2004	8/12/2004	124	8/9/2004	8/20/2004	124
156	9/2/2004	9/16/2004	124	8/13/2004	8/26/2004	124	8/23/2004	9/3/2004	124
157	9/17/2004	9/21/2004	124	8/27/2004	8/31/2004	124	9/7/2004	9/9/2004	124
158	9/22/2004	9/23/2004	124	9/1/2004	9/2/2004	124	9/10/2004	9/13/2004	124
159	9/24/2004	9/30/2004	124	9/3/2004	9/10/2004	124	9/14/2004	9/20/2004	124
160	10/1/2004	10/12/2004	124	9/13/2004	9/22/2004	124	9/21/2004	9/30/2004	124
161	10/13/2004	10/14/2004	124	9/23/2004	9/24/2004	124	10/1/2004	10/4/2004	124
<u>162</u>	6/16/2004	8/27/2004	<u>57</u>	5/26/2004	8/9/2004	57	6/4/2004	8/17/2004	<u>57</u>
163	6/16/2004	6/23/2004	57	5/26/2004	6/3/2004	57	6/4/2004	6/11/2004	57
164	6/24/2004	7/9/2004	57	6/4/2004	6/17/2004	57	6/14/2004	6/25/2004	57
165	7/12/2004	7/19/2004	57	6/18/2004	6/25/2004	57	6/28/2004	7/7/2004	57
166	7/20/2004	7/21/2004	57	6/28/2004	6/29/2004	57	7/8/2004	7/9/2004	57
167	7/22/2004	7/28/2004	57	6/30/2004	7/8/2004	57	7/12/2004	7/16/2004	57
168	7/29/2004	8/11/2004	57	7/9/2004	7/22/2004	57	7/19/2004	7/30/2004	57
169	8/12/2004	8/20/2004	57	7/23/2004	8/2/2004	57	8/2/2004	8/10/2004	57
170	8/23/2004	8/24/2004	57	8/3/2004	8/4/2004	57	8/11/2004	8/12/2004	57
171	8/25/2004	8/27/2004	100	8/5/2004	8/9/2004	100	8/13/2004	8/17/2004	100
172	7/22/2004	8/19/2004	188	6/30/2004	7/30/2004	188	7/12/2004	8/9/2004	188
173	7/22/2004	7/26/2004	188	6/30/2004	7/6/2004	188	7/12/2004	7/14/2004	188
174	7/27/2004	7/30/2004	188	7/7/2004	7/12/2004	188	7/15/2004	7/20/2004	188
175	8/2/2004	8/6/2004	188	7/13/2004	7/19/2004	188	7/21/2004	7/27/2004	188
176	8/9/2004	8/11/2004	188	7/20/2004	7/22/2004	188	7/28/2004	7/30/2004	188
177	8/12/2004	8/17/2004	188	7/23/2004	7/28/2004	188	8/2/2004	8/5/2004	188
178	8/18/2004	8/19/2004	188	7/29/2004	7/30/2004	188	8/6/2004	8/9/2004	188
<u>179</u>	8/25/2004	11/3/2004	135	8/5/2004	10/14/2004	135	8/13/2004	10/22/2004	135 125
180	8/25/2004	8/30/2004	135	8/5/2004	8/10/2004	135	8/13/2004	8/18/2004	135
181	8/31/2004	9/10/2004	135	8/11/2004	8/20/2004	135	8/19/2004	8/30/2004	135
182	9/13/2004	9/22/2004	135	8/23/2004	9/1/2004	135	8/31/2004	9/10/2004	135
183	9/23/2004	9/30/2004	135	9/2/2004	9/10/2004	135	9/13/2004	9/20/2004	135
184	10/1/2004	10/7/2004	135	9/13/2004	9/17/2004	135	9/21/2004	9/27/2004	135
185	10/8/2004	10/14/2004	135	9/20/2004	9/24/2004	135	9/28/2004	10/4/2004	135
186	10/15/2004	10/18/2004	135	9/27/2004	9/28/2004	40=	10/5/2004	10/6/2004	135
187		11/1/2004							135
188	11/2/2004	11/3/2004							135
189 400	11/23/2004	3/1/2005	40	11/3/2004	2/9/2005	40		2/17/2005	40
190	11/23/2004	12/1/2004	40		11/9/2004	40		11/17/2004	40
191	12/2/2004	12/3/2004	40	11/10/2004	11/11/2004	40		11/19/2004	40
192	12/6/2004	12/17/2004	40	11/12/2004	11/29/2004	40		12/7/2004	40
193	12/20/2004	1/4/2005	40			40			40
194	1/5/2005		40				12/22/2004		40
195	1/12/2005	1/25/2005	40		1/5/2005		12/30/2004	1/13/2005	40
196	1/26/2005	2/8/2005	40			40		1/27/2005	
197	2/9/2005	3/1/2005	40	1/20/2005		40			40
198	1/5/2005	3/22/2005	40 65	12/14/2004		40 65	12/22/2004	3/10/2005	40 65
199	1/5/2005	1/11/2005	65			65 55		1/27/2005	65 55
200	1/26/2005	2/8/2005	55		1/19/2005	55		1/27/2005	55 40
201	3/2/2005	3/22/2005	40	2/10/2005	3/2/2005	40	2/18/2005	3/10/2005	40

Table B-1: Continued [pg. 5 of 20]

	As-Plani	ned Schedule	Э	20-	Jun-03		June 24, 20	03 (Reschedi	uled)
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
202	8/25/2004	2/25/2005	57	8/5/2004	2/7/2005	57	8/13/2004	2/15/2005	57
203	8/25/2004	8/26/2004	57	8/5/2004	8/6/2004	57	8/13/2004	8/16/2004	57
204	8/27/2004	9/2/2004	57	8/9/2004	8/13/2004	57	8/17/2004	8/23/2004	57
205	9/3/2004	9/24/2004	57	8/16/2004	9/3/2004	57	8/24/2004	9/14/2004	57
206	9/27/2004	9/30/2004	57	9/7/2004	9/10/2004	57	9/15/2004	9/20/2004	57
207	10/1/2004	10/14/2004	57	9/13/2004	9/24/2004	57	9/21/2004	10/4/2004	57
208	10/15/2004	10/18/2004	57	9/27/2004	9/28/2004	57	10/5/2004	10/6/2004	57
209	10/19/2004	11/1/2004	57	9/29/2004	10/12/2004	57	10/7/2004	10/20/2004	57
210	11/2/2004	11/8/2004	57	10/13/2004	10/19/2004	57	10/21/2004	10/27/2004	57
211	11/9/2004	11/15/2004	57	10/20/2004	10/26/2004	57	10/28/2004	11/3/2004	57
212	11/16/2004	11/29/2004	57	10/27/2004	11/5/2004	57	11/4/2004	11/15/2004	57
213	11/30/2004	12/13/2004	57	11/8/2004	11/19/2004	57	11/16/2004	12/1/2004	57
214	8/30/2004	9/27/2004	111	8/10/2004	9/7/2004	111	8/18/2004	9/15/2004	111
215	10/15/2004	10/28/2004	77	9/27/2004	10/8/2004	77	10/5/2004	10/18/2004	77
216	10/29/2004	11/4/2004	77	10/11/2004	10/15/2004	77	10/19/2004	10/25/2004	77
217	12/7/2004	12/14/2004	57	11/15/2004	11/22/2004	57	11/23/2004	12/2/2004	57
218	12/15/2004	12/22/2004	57	11/23/2004	12/2/2004	57	12/3/2004	12/10/2004	57
219	12/16/2004	12/22/2004	57	11/24/2004	12/2/2004	57	12/6/2004	12/10/2004	57
220	12/23/2004	1/7/2005	57	12/3/2004	12/16/2004	57	12/13/2004	12/27/2004	57
221	1/10/2005	1/14/2005	57	12/17/2004	12/23/2004	57	12/28/2004	1/4/2005	57
222	1/17/2005	1/20/2005	57	12/27/2004	12/30/2004	57	1/5/2005	1/10/2005	57
223	1/21/2005	1/28/2005	57	1/3/2005	1/10/2005	57	1/11/2005	1/18/2005	57
224	1/31/2005	2/4/2005	57	1/11/2005	1/17/2005	57	1/19/2005	1/25/2005	57
225	12/23/2004	12/29/2004	78	12/3/2004	12/8/2004	78	12/13/2004	12/16/2004	78
226	12/23/2004	1/21/2005	76	12/3/2004	1/3/2005	76	12/13/2004	1/11/2005	76
227	1/24/2005	1/27/2005	76	1/4/2005	1/7/2005	76	1/12/2005	1/17/2005	76
228	2/24/2005	2/25/2005	57	2/4/2005	2/7/2005	57	2/14/2005	2/15/2005	57
229	1/17/2005	2/7/2005	71	12/27/2004	1/18/2005	71	1/5/2005	1/26/2005	71
230	1/17/2005	1/18/2005	71	12/27/2004	12/28/2004	71	1/5/2005	1/6/2005	71
231	1/19/2005	1/21/2005	71	12/29/2004	1/3/2005	71	1/7/2005	1/11/2005	71
232	1/24/2005	1/25/2005	71	1/4/2005	1/5/2005	71	1/12/2005	1/13/2005	71
233	1/26/2005	1/28/2005	71	1/6/2005	1/10/2005	71	1/14/2005	1/18/2005	71
234	1/31/2005	1/31/2005	71	1/11/2005	1/11/2005	71	1/19/2005	1/19/2005	71
235	2/1/2005	2/7/2005	71	1/12/2005	1/18/2005	71	1/20/2005	1/26/2005	71
236	7/8/2003	10/30/2003	0	6/13/2003	10/10/2003	0	6/13/2003	10/20/2003	0
237	7/10/2003	7/10/2003	0	6/13/2003	6/13/2003	0	6/13/2003		0
238	7/8/2003	8/6/2003	0	6/17/2003	7/17/2003	0	6/17/2003	7/25/2003	0
239	8/1/2003	8/26/2003	0	7/14/2003	8/6/2003	0	7/22/2003	8/14/2003	0
240	8/7/2003	9/2/2003	8	7/18/2003	8/12/2003	8	7/28/2003	8/20/2003	8
241	8/14/2003	9/8/2003	0	7/25/2003	8/18/2003	0	8/4/2003	8/26/2003	0
242	8/26/2003	9/5/2003	0	8/6/2003	8/15/2003	0	8/14/2003	8/25/2003	0
243	9/8/2003	9/9/2003	0	8/18/2003	8/19/2003	0	8/26/2003	8/27/2003	0
244	9/3/2003	9/10/2003	1	8/13/2003	8/20/2003	1	8/21/2003	8/28/2003	1
245	9/10/2003	9/16/2003	0	8/20/2003	8/26/2003	0	8/28/2003	9/4/2003	0
246	9/11/2003	9/26/2003	0	8/21/2003	9/8/2003	0	8/29/2003	9/16/2003	0
247	9/25/2003	9/30/2003	0	9/5/2003	9/10/2003	0	9/15/2003	9/18/2003	0
248	9/30/2003	10/3/2003	0	9/10/2003	9/15/2003	0	9/18/2003	9/23/2003	0
249	10/6/2003	10/6/2003	0	9/16/2003	9/16/2003	0	9/24/2003	9/24/2003	0
250	10/7/2003	10/8/2003	0	9/17/2003	9/18/2003	0	9/25/2003	9/26/2003	0

Table B-1: Continued [pg. 6 of 20]

	As-Plani	ned Schedule	2	20-	Jun-03		June 24 20	03 (Resched	uled)
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
251		10/20/2003	0			0			0
252	10/9/2003		1	9/19/2003		1		10/8/2003	1
253	10/9/2003	10/14/2003	0	9/24/2003		0		10/20/2003	0
254	7/11/2003	11/12/2003	6	6/16/2003	10/10/2003	6		10/20/2003	6
255	7/11/2003	7/14/2003	37	6/16/2003	6/17/2003	41	6/25/2003	6/26/2003	40
256	8/14/2003	8/20/2003	15	7/25/2003	7/31/2003	15		8/8/2003	15
257	8/15/2003	8/26/2003	19	7/28/2003	8/6/2003	19		8/14/2003	19
258	9/3/2003	9/8/2003	8	8/13/2003	8/18/2003	8	8/21/2003	8/26/2003	8
259	8/15/2003	8/26/2003	19	7/28/2003	8/6/2003	19		8/14/2003	19
260	9/9/2003	9/22/2003	8	8/19/2003	9/2/2003	8		9/10/2003	8
261	9/23/2003	9/24/2003	8	9/3/2003	9/4/2003	8		9/12/2003	8
262	8/27/2003	9/2/2003	24	8/7/2003	8/12/2003	24		8/20/2003	24
263	9/25/2003	9/29/2003	8	9/5/2003	9/9/2003	8		9/17/2003	8
264	9/29/2003	10/20/2003	6	9/9/2003	9/30/2003	6		10/8/2003	6
265	10/17/2003	10/20/2003	6	9/29/2003	9/30/2003	6		10/8/2003	6
266	10/11/2003	10/23/2003	6	10/1/2003	10/3/2003	6		10/13/2003	6
267	10/21/2003	10/23/2003	6	10/6/2003	10/6/2003	6			6
268	10/24/2003	10/27/2003	6	10/7/2003	10/7/2003	6			6
269	10/21/2003	11/3/2003	9	10/8/2003		9			9
270	10/28/2003	10/30/2003	6	10/8/2003		6			6
271	10/20/2003	11/12/2003	6	10/13/2003		6			6
272	10/31/2003	12/2/2003	0	10/13/2003		0		11/18/2003	0
273	10/31/2003	11/6/2003	0	10/13/2003	10/17/2003	0		10/27/2003	0
274	11/7/2003	11/12/2003	0	10/20/2003		0		10/21/2003	0
275	11/10/2003	12/2/2003	0	10/21/2003		0			0
276	11/14/2003	11/25/2003	3	10/21/2003	11/5/2003	3		11/13/2003	3
277	11/20/2003	11/25/2003	3	10/21/2003	11/5/2003	3		11/13/2003	3
278	11/13/2003	12/8/2003	6	10/24/2003	11/14/2003	6		11/24/2003	6
279	11/13/2003	11/17/2003	6	10/24/2003	10/28/2003	6		11/5/2003	6
280	11/18/2003	11/20/2003	6	10/29/2003	10/31/2003	6		11/10/2003	6
281	11/21/2003	12/8/2003	6	11/3/2003	11/14/2003	6		11/24/2003	6
282	11/24/2003	12/3/2003	9	11/4/2003	11/11/2003	9		11/19/2003	9
283	12/1/2003	12/3/2003	9	11/7/2003	11/11/2003	9		11/19/2003	9
284	12/3/2003	1/7/2004	0	11/11/2003	12/11/2003	0		12/19/2003	0
285	12/3/2003	12/9/2003	0			0			0
286		12/15/2003	_			_	11/26/2003		0
287	12/11/2003		0			0		12/19/2003	0
	12/17/2003		3	11/25/2003		3		12/16/2003	3
	12/23/2003		3	12/3/2003		3		12/16/2003	3
	12/10/2003	1/7/2004	5	11/18/2003		5		12/19/2003	5
	12/10/2003		5	11/18/2003		5			5
292	12/15/2003		5	11/21/2003		5			5
293	12/18/2003	1/7/2004	5	11/26/2003		5		12/19/2003	5
294	12/19/2003	12/31/2003	8		12/8/2003	8			8
295	12/29/2003	12/31/2003	8		12/8/2003	8		12/16/2003	8
296	1/8/2004	2/5/2004	0	12/12/2003	1/16/2004	0	12/22/2003	1/26/2004	0
297	1/8/2004	1/14/2004	0	12/12/2003	12/18/2003	0		12/31/2003	0
298	1/15/2004	1/20/2004	3	12/19/2003	12/29/2003	3		1/8/2004	3
299	1/16/2004	2/5/2004	3	12/22/2003	1/16/2004	3		1/26/2004	3
300	1/22/2004	2/2/2004	3	12/31/2003	1/13/2004	3		1/21/2004	3
301	1/28/2004	2/2/2004	3	1/8/2004	1/13/2004	3		1/21/2004	3
	:: = 5, = 55 1)			_			

Table B-1: Continued [pg. 7 of 20]

	As-Plani	ned Schedule	е	20-	Jun-03		June 24, 20	03 (Resched	uled)
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
302	1/15/2004	2/5/2004	0	12/19/2003	1/16/2004	0	1/5/2004	1/26/2004	0
303	1/15/2004	1/19/2004	0	12/19/2003	12/23/2003	0	1/5/2004	1/7/2004	0
304	1/20/2004	1/22/2004	0	12/29/2003	12/31/2003	0	1/8/2004	1/12/2004	0
305	1/23/2004	2/5/2004	0	1/5/2004	1/16/2004	0	1/13/2004	1/26/2004	0
306	1/26/2004	2/2/2004	3	1/6/2004	1/13/2004	3	1/14/2004	1/21/2004	3
307	1/29/2004	2/2/2004	3	1/9/2004	1/13/2004	3		1/21/2004	3
308	1/20/2004	1/29/2004	25	12/29/2003	1/9/2004	25		1/19/2004	25
309	2/6/2004	3/11/2004	0	1/19/2004	2/20/2004	0	1/27/2004	3/1/2004	0
310	2/6/2004	2/19/2004	0	1/19/2004	1/30/2004	0	1/27/2004	2/9/2004	0
311	2/20/2004	2/24/2004	0	2/2/2004	2/4/2004	0	2/10/2004	2/12/2004	0
312	2/25/2004	3/1/2004	0	2/5/2004	2/10/2004	0	2/13/2004	2/18/2004	0
313	3/2/2004	3/11/2004	0	2/11/2004	2/20/2004	0	2/19/2004	3/1/2004	0
314	3/12/2004	5/27/2004	0	2/23/2004	5/7/2004	0	3/2/2004	5/17/2004	0
315	3/12/2004	3/17/2004	0	2/23/2004	2/26/2004	0	3/2/2004	3/5/2004	0
316	3/18/2004	3/24/2004	0	2/27/2004	3/4/2004	0		3/12/2004	0
317	3/25/2004	3/31/2004	5	3/5/2004	3/11/2004	5		3/19/2004	5
318	4/1/2004	4/7/2004	5	3/12/2004	3/18/2004	5		3/26/2004	5
319	4/8/2004	4/15/2004		3/19/2004	3/26/2004	250		4/5/2004	
320	5/14/2004		240	4/26/2004	5/7/2004	240	5/4/2004	5/17/2004	240
321	1/30/2004	5/13/2004	25	1/12/2004	4/23/2004	25	1/20/2004	5/3/2004	25
322	1/30/2004	2/12/2004	25	1/12/2004	1/23/2004	25		2/2/2004	25
323	2/13/2004	2/18/2004	25	1/26/2004	1/29/2004	25		2/6/2004	25
324	3/25/2004	4/7/2004	0	3/5/2004	3/18/2004	0		3/26/2004	0
325	4/8/2004	4/14/2004	0	3/19/2004	3/25/2004	0		4/2/2004	0
326	4/15/2004	4/21/2004	0	3/26/2004	4/1/2004	0		4/9/2004	0
327	4/22/2004		240	4/2/2004	4/9/2004	240		4/19/2004	240
328	4/30/2004	5/13/2004	240	4/12/2004	4/23/2004	240		5/3/2004	240
329	2/6/2004	7/26/2004	40	1/19/2004	7/6/2004	40	1/27/2004	7/14/2004	40
330	2/6/2004	2/19/2004	40	1/19/2004	1/30/2004	40		2/9/2004	40
331	4/12/2004	4/21/2004	46	3/23/2004	4/1/2004	46		4/9/2004	46
332	2/12/2004	3/10/2004	40	1/23/2004	2/19/2004	40		2/27/2004	40
333	4/30/2004	5/27/2004	40	4/12/2004	5/7/2004	40	4/20/2004	5/17/2004	40
334	2/20/2004	3/9/2004	134	2/2/2004	2/18/2004	134		2/26/2004	134
335	4/22/2004	5/7/2004	103	4/2/2004	4/19/2004	103		4/27/2004	103
336	5/28/2004	6/11/2004	93		5/21/2004	93		6/1/2004	93
337	5/28/2004	6/2/2004			5/12/2004	100		5/20/2004	100
338	6/2/2004	6/22/2004	72	5/12/2004	6/2/2004	72		6/10/2004	72
339	6/23/2004	6/30/2004	72	6/3/2004	6/10/2004	72		6/18/2004	72
340	7/1/2004	7/14/2004	72	6/11/2004	6/22/2004	72		6/30/2004	72
341	7/15/2004	7/19/2004	72	6/23/2004	6/25/2004	72		7/7/2004	72
342	7/20/2004	7/26/2004	72	6/28/2004	7/6/2004	72		7/14/2004	72
343	2/20/2004	8/4/2004	45	2/2/2004	7/15/2004	45		7/23/2004	45
344	2/20/2004	3/16/2004	45	2/2/2004	2/25/2004	45		3/4/2004	45
345	3/17/2004	4/9/2004	46	2/26/2004	3/22/2004	46		3/30/2004	46
346	3/11/2004	4/7/2004	40	2/20/2004	3/18/2004	40		3/26/2004	40
347	4/8/2004	5/5/2004	40	3/19/2004	4/15/2004	40	3/29/2004	4/23/2004	40
348	3/17/2004		256	2/26/2004	3/15/2004	256		3/23/2004	256
349	4/12/2004		251	3/23/2004	4/7/2004	251	3/31/2004		251
350	5/6/2004			4/16/2004	4/29/2004	235			235
550	5/0/2004	5/15/2004	200	7/ 10/2004	7/23/2004	200	7/20/2004	5/1/2004	200

Table B-1: Continued [pg. 8 of 20]

Start Finish TF Start Finish The Finish TF Start Finish The F		As-Plani	ned Schedule	Э	20-	Jun-03		June 24, 200	03 (Resched	uled)
556 2004 5/6	ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
552 566/2004 5/21/2004 57 4/16/2004 5/3/2004 57 5/24/2004 5/19/2004 57 5/42/2004 6/17/2004 57 5/47/2004 57 5/12/2004 5/19/2004 57 5/24/2004 6/17/2004 57 5/12/2004 5/19/2004 57 5/24/2004 6/17/2004 57 5/24/2004 5/19/2004 5/1	351	5/6/2004		244			244			244
535 5/24/2004 6/11/2004 57 5/14/2004 5/15/25/2004 57 5/14/2004 5/7 5/14/2004 5/7 5/12/2004 5/7 5/20/2004 5/7										
Section				57			57			
1555 7/20/2004 17/23/2004 194 77/72004 77/15/2004 195 77/8/2004 77/3/2004 195 195 77/8/2004 77/3/2004 195 77/8/2004 197/3/2004 195 77/8/2004 197/3/20						5/25/2004	57			
356 7/27/2004 8/4/2004 9/4 7/12/004 7/15/2004 7/15/2004 7/23/2004 19/4 7/15/2004 7/23/2004 19/4 7/25/2004 10/13/2004 0 4/22/2004 0/47/2004 0 4/22/2004 10/13/2004 0 4/22/2004 0/47/2004 0 4/22/2004 0/47/2004 0 4/22/2004 0/47/2										
357 4/22/2004 10/13/2004 0 4/22/2004 9/23/2004 0 4/12/2004 10/12/2004 0 4/22/2004 4/27/2004 0 4/22/2004 0 4/22/2004 5/3/2004 0 4/22/2004 5/3/2004 0 4/22/2004 5/5/2004 113 4/22/2004 4/15/2004 0 4/13/2004 4/22/2004 113 361 5/6/2004 5/5/2004 113 4/3/2004 4/25/2004 113 4/22/2004 4/25/2004 5/5/2004 113 4/3/2004 4/15/2004 113 4/22/2004 4/25/2004 5/72/2004 113 5/6/2004 5/79/2004 113 4/3/2004 5/5/2004 113 4/3/2/2004 113 5/6/2004 5/79/2004 113 4/3/2/2004 5/5/2004 113 5/6/2004 5/7/2004 0 4/14/2004 5/79/2004 0 4/24/2004 5/7/2004 0 4/24/2004 5/7/2004 0 4/24/2004 5/7/2004 0 5/5/2004 113 5/6/2004 5/7/2004 0 4/14/2004 4/19/2004 0 4/22/2004 4/27/2004 0 364 5/6/2004 5/19/2004 0 4/16/2004 5/26/2004 5/26/2004 5/26/2004 5/5/2004 5/5/2004 5/5/2004 5/5/2004 5/5/2004 5/5/2004 5/5/2004 5/5/2004 5/5/2004 5/5/2004 5/5/2004 5/5/2004 5/5/2004 5/5/2004 5/5/5/2004 5/5/5/2004 5/5/5/2004 5/5/5/2004 5/5/5/2004 5/5/2/2004 5/5/5/2004 5/5/2/2004 5/5/5/2004	_			194						194
1588 4/22/2004 4/27/2004 0 4/22/2004 4/15/2004 0 4/15/2004 4/15/2004 0 4/15/2004 4/15/2004 0 4/15/2004 4/15/2004 4/15/2004 4/15/2004 4/15/2004 4/15/2004 4/15/2004 4/15/2004 4/15/2004 4/15/2004 4/15/2004 1/13 4/15/2004 4/15/2004 1/13 4/15/2004 4/15/2004 1/13 4/15/2004 4/15/2004 1/13 4/15/2004 4/15/2004 1/13 4/15/2004 4/15/2004 1/13 4/15/2004 4/15/2004 1/13 4/15/2004 4/15/2004 1/13 4/15/2004 5/15/2004 1/13 4/15/2004 5/15/2004 1/13 4/15/2004 5/15/2004 1/13 4/15/2004 5/15/2004 1/13 4/15/2004 5/15/2004 1/13 4/15/2004 5/15/2004 1/13 4/15/2004 5/15/2004 1/13 4/15/2004 5/15/2004 5/15/2004 1/13 4/15/2004 5/15/2004 1/13 4/15/2004 5/15/2004 1/13 4/15/2004 5/15/2004 1/13 4/15/2004 5/15/2004 1/13 4/15/2004 5/15/2004 1/13 4/15/2004 5/15/2004 1/13 4/15/2004 5/15/2004 1/13 4/15/2004 5/15/2004 1/13 4/15/2004 5/15/2004 1/13 4/15/2004 5/15/2004 1/13 4/15/2004 5/15/2004 1/13 4/15/2004 4/15/2004 4/15/2004 4/15/2004 4/15/2004 4/15/2004 4/15/2004 4/15/2004 5/25/2004 6/15/200							0			0
359 4/28/2004 5/3/2004 0 4/8/2004 4/13/2004 0 4/16/2004 4/21/2004 0 360 4/22/2004 5/5/2004 113 4/2/2004 4/15/2004 113 4/12/2004 113 361 5/6/2004 5/19/2004 113 4/16/2004 4/29/2004 113 3/26/2004 5/7/2004 113 3/26/2004 5/25/2004 113 4/36/2004 5/25/2004 113 4/36/2004 5/25/2004 113 3/36/2004 5/25/2004 113 4/30/2004 5/5/2004 113 5/10/2004 5/13/2004 113 3/30/2004 5/5/2004 5/13/2004 0 4/14/2004 4/19/2004 0 4/26/2004 5/13/2004 0 4/15/2004 4/19/2004 0 4/26/2004 5/13/2004 0 364 5/6/2004 5/19/2004 0 4/16/2004 4/29/2004 0 4/26/2004 5/7/2004 0 365 5/13/2004 6/10/2004 68 4/23/2004 5/20/2004 68 5/3/2004 5/28/2004 68 3/3/2004 6/10/2004 68 4/23/2004 5/20/2004 68 5/3/2004 5/28/2004 68 3/3/2004 6/10/2004 68 4/23/2004 5/13/2004 6/28/		4/22/2004		0			0	4/12/2004		0
360				0			0			0
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362 5/20/2004 5/25/2004 113 4/30/2004 5/5/2004 113 5/10/2004 5/13/2004 113 363 5/4/2004 5/77/2004 0 4/14/2004 0 4/19/2004 0 4/25/2004 4/27/2004 0 365 5/13/2004 6/10/2004 68 4/23/2004 5/20/2004 68 5/3/2004 5/28/2004 68 366 5/13/2004 6/10/2004 68 4/23/2004 5/20/2004 68 5/3/2004 5/28/2004 68 367 5/14/2004 6/3/2004 0 4/26/2004 0 5/20/2004 68 5/3/2004 5/28/2004 68 368 5/20/2004 6/77/2004 83 4/33/2004 5/20/2004 83 5/3/2004 5/28/2004 68 369 5/13/2004 6/77/2004 83 4/33/2004 5/13/2004 0 5/4/2004 5/21/2004 0 369 5/20/2004 6/77/2004 83 4/33/2004 5/13/2004 0 5/4/2004 5/21/2004 0 370 6/11/2004 6/8/2004 68 5/21/2004 6/8/2004 68 5/21/2004 6/8/2004 68 371 6/11/2004 6/8/2004 68 5/21/2004 6/8/2004 68 5/21/2004 6/8/2004 68 372 6/4/2004 6/15/2004 77 5/14/2004 5/25/2004 6/3/2004 6/3/2004 6/20/200							113			
363										
364	_									
365 5/13/2004 6/10/2004 68 4/23/2004 5/20/2004 68 5/3/2004 5/28/2004 68 366 5/13/2004 6/10/2004 68 4/23/2004 5/20/2004 68 5/3/2004 5/28/2004 68 367 5/14/2004 6/3/2004 0 4/26/2004 5/13/2004 0 5/14/2004 5/21/2004 0 368 5/20/2004 6/7/2004 83 4/30/2004 5/13/2004 83 5/10/2004 5/25/2004 83 369 5/13/2004 6/28/2004 68 5/21/2004 6/28/2004 68 5/21/2004 6/28/2004 68 6/11/2004 6/28/2004 68 5/21/2004 6/18/2004 68 6/11/2004 6/28/2004 68 5/21/2004 6/8/2004 68 6/11/2004 6/16/2004 68 5/21/2004 6/28/2004 68 6/11/2004 6/16/2004 68 372 6/4/2004 6/15/2004 77 5/14/2004 5/25/2004 80 373 5/20/2004 5/25/2004 80 4/30/2004 5/5/2004 80 5/10/2004 5/25/2004 6/7/2004 6/15/2004 80 4/30/2004 5/16/2004 80 5/14/2004 5/25/2004 80 5/16/2004 5/16/2004 6/16/2004 80 5/6/2004 5/14/2004 5/25/2004 80 5/6/2004 5/14/2004 5/25/2004 80 5/6/2004 5/14/2004 5/25/2004 80 5/6/2004 5/14/2004 5/25/2004 80 5/6/2004 5/14/2004 5/25/2004 80 5/6/2004 5/14/2004 5/25/2004 80 5/6/2004 5/14/2004 5/25/2004 80 5/6/2004 5/14/2004 5/25/2004 80 5/6/2004 5/14/2004 5/25/2004 80 5/6/2004 8/6/2004 8/6/2004 8/6/2004 8/6/2004 8/6/2004 8/6/2004	_						_			
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370 6/11/2004 6/28/2004 68 5/21/2004 6/8/2004 68 6/10/2004 6/16/2004 68 371 6/11/2004 6/28/2004 68 5/21/2004 6/8/2004 68 6/11/2004 6/16/2004 68 372 6/4/2004 6/15/2004 77 5/14/2004 5/25/2004 77 5/24/2004 6/3/2004 77 373 5/20/2004 5/25/2004 80 4/30/2004 5/5/2004 80 5/10/2004 6/13/2004 80 374 5/26/2004 6/15/2004 80 5/6/2004 5/17/2004 80 5/10/2004 6/13/2004 80 375 6/8/2004 6/15/2004 80 5/18/2004 5/25/2004 80 5/14/2004 6/25/2004 80 376 6/9/2004 6/15/2004 80 5/18/2004 5/25/2004 80 5/14/2004 6/25/2004 80 377 6/29/2004 7/13/2004 68 6/9/2004 6/21/2004 176 5/27/2004 6/10/2004 176 377 6/29/2004 7/13/2004 68 6/9/2004 6/21/2004 176 5/27/2004 6/29/2004 7/13/2004 68 380 7/21/2004 8/3/2004 72 6/15/2004 6/28/2004 68 6/30/2004 7/20/2004 68 381 8/2/2004 8/13/2004 68 6/29/2004 7/16/2004 68 7/21/2004 6/38/2004 68 381 8/2/2004 8/13/2004 68 6/29/2004 7/16/2004 68 7/21/2004 8/3/2004 68 381 8/2/2004 8/13/2004 68 7/13/2004 7/26/2004 68 382 8/4/2004 8/13/2004 68 7/13/2004 7/26/2004 68 383 8/16/2004 8/18/2004 68 7/27/2004 7/22/2004 7/22/2004 7/23/2004 7/30/2004 7/28/2004 6/38/2004 8/38/2004 8/38/2004 8/13/2004 68 7/27/2004 6/30/2004 6/30/2004 7/27/2004 6/30/2004 7/21/2004 6/30/2004 7/21/2004 6/30/2004 7/21/2004 6/30/2004 7/21/2004 6/30/2004 7/21/2004 6/30/2004 7/21/2004 6/30/2004 7/21/2004 6/30/2004 7/21/2004 6/30/2004 7/21/2004 7/21/2004 6/30/2004 7/21/2004 7/21/2004 7/21/2004 6/30/2004 7/21/2004 7/21/2004 7/21/2004 6/30/2004 7/21/2004 7/21/2004 6/30/2004 7/21/2004 7/21/2004 6/30/2004 7/21/2004 7/21/2004 7/21/2004 7/21/2004 7/21/2004 6/30/2004 6/30/2004 7/21/2004 7/21/2004 7/21/2004 7/21/2004 6/30/2004 6/30/2004 7/21/2004 7/21/2004 7/21/2004 7/21/2004 7/21/2004 7/21/2004 7/21/2004 7/21/2004 7/21/2004 7/21/2004 7/21/2004 7/21/2004 8/2	-									
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	400	9/13/2004	9/14/2004			8/24/2004			9/1/2004	136

Table B-1: Continued [pg. 9 of 20]

	As-Plani	ned Schedule	Э	20-	Jun-03		June 24, 20	03 (Resched	uled)
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
401	9/9/2004	9/22/2004	68	8/19/2004	9/1/2004	68	8/27/2004	9/10/2004	68
402	9/23/2004	10/6/2004	135	9/2/2004	9/16/2004	135	9/13/2004	9/24/2004	135
403	9/23/2004	9/30/2004	139	9/2/2004	9/10/2004	139	9/13/2004	9/20/2004	139
404	10/7/2004	10/13/2004	135	9/17/2004	9/23/2004	135	9/27/2004	10/1/2004	135
405	4/28/2004	10/27/2004	7	4/8/2004	10/7/2004	7	4/16/2004	10/15/2004	7
406	4/28/2004	5/3/2004	7	4/8/2004	4/13/2004	7	4/16/2004	4/21/2004	7
407	5/4/2004	5/7/2004	7	4/14/2004	4/19/2004	7	4/22/2004	4/27/2004	7
408	5/10/2004	5/13/2004	7	4/20/2004	4/23/2004	7	4/28/2004	5/3/2004	7
409	5/14/2004	5/27/2004	7	4/26/2004	5/7/2004	7	5/4/2004	5/17/2004	7
410	5/21/2004	6/11/2004	79	5/3/2004	5/21/2004	79	5/11/2004	6/1/2004	79
411	5/21/2004	6/11/2004	79	5/3/2004	5/21/2004	79	5/11/2004	6/1/2004	79
412	6/4/2004	6/17/2004	0	5/14/2004	5/27/2004	0	5/24/2004	6/7/2004	0
413	5/25/2004	6/10/2004	90	5/5/2004	5/20/2004	90	5/13/2004	5/28/2004	90
414	5/21/2004	6/11/2004	89	5/3/2004	5/21/2004	89	5/11/2004	6/1/2004	89
415	6/14/2004	6/25/2004	79	5/24/2004	6/7/2004	79	6/2/2004	6/15/2004	79
416	6/14/2004	6/25/2004	79	5/24/2004	6/7/2004	79	6/2/2004	6/15/2004	79
417	6/18/2004	6/29/2004	77	5/28/2004	6/9/2004	77	6/8/2004	6/17/2004	77
418	5/28/2004	6/3/2004	84	5/10/2004	5/13/2004	84	5/18/2004	5/21/2004	84
419	6/4/2004	6/15/2004	84	5/14/2004	5/25/2004	84	5/24/2004	6/3/2004	84
420	6/16/2004	6/23/2004	84	5/26/2004	6/3/2004	84	6/4/2004	6/11/2004	84
421	6/30/2004	7/14/2004	77	6/10/2004	6/22/2004	77	6/18/2004	6/30/2004	77
422	6/14/2004	6/25/2004	178	5/24/2004	6/7/2004	178	6/2/2004	6/15/2004	178
423	7/8/2004	8/4/2004	81	6/16/2004	7/15/2004	81	6/24/2004	7/23/2004	81
424	7/15/2004	7/21/2004	77	6/23/2004	6/29/2004	77	7/1/2004	7/9/2004	77
425	7/22/2004	8/6/2004	77	6/30/2004	7/19/2004	77	7/12/2004	7/27/2004	77
426	8/3/2004	8/16/2004	77	7/14/2004	7/27/2004	77	7/22/2004	8/4/2004	77
427	8/5/2004	8/12/2004	81	7/16/2004	7/23/2004	81	7/26/2004	8/2/2004	81
428	8/17/2004	8/19/2004	77	7/28/2004	7/30/2004	77	8/5/2004	8/9/2004	77
429	8/20/2004	8/26/2004	77	8/2/2004	8/6/2004	77	8/10/2004	8/16/2004	77
430	7/15/2004	7/28/2004	175	6/23/2004	7/8/2004	175	7/1/2004	7/16/2004	175
431	6/28/2004	7/7/2004	178	6/8/2004	6/15/2004	178	6/16/2004	6/23/2004	178
432	8/13/2004	8/20/2004	152	7/26/2004	8/2/2004	152	8/3/2004	8/10/2004	152
433	8/23/2004	8/30/2004	152	8/3/2004	8/10/2004	152	8/11/2004	8/18/2004	152
434	8/31/2004	9/14/2004	152	8/11/2004	8/24/2004	152	8/19/2004	9/1/2004	152
435		8/25/2004	78		8/5/2004	78		8/13/2004	78
436		8/24/2004	81	7/26/2004	8/4/2004	81		8/12/2004	81
437	9/15/2004	9/20/2004	152	8/25/2004	8/30/2004	152		9/8/2004	
438	8/20/2004	8/25/2004	78	8/2/2004	8/5/2004	78		8/13/2004	78
439	8/23/2004	9/2/2004	163	8/3/2004	8/13/2004	163		8/23/2004	163
440	8/25/2004	8/27/2004	167	8/5/2004	8/9/2004	167	8/13/2004	8/17/2004	167
441	8/25/2004	9/8/2004	160	8/5/2004	8/18/2004	160		8/26/2004	160
442	8/25/2004	8/25/2004	81	8/5/2004	8/5/2004	81	8/13/2004	8/13/2004	81
443	8/27/2004	8/31/2004	77	8/9/2004	8/11/2004	77	8/17/2004	8/19/2004	77
444	9/1/2004	9/13/2004	77	8/12/2004	8/23/2004	77	8/20/2004	8/31/2004	77
445	9/15/2004	9/16/2004	136	8/25/2004	8/26/2004	136		9/3/2004	
446	9/23/2004	10/6/2004	68	9/2/2004	9/16/2004	68		9/24/2004	68
447	10/7/2004	10/20/2004	130	9/17/2004	9/30/2004	130		10/8/2004	
448		10/14/2004	134	9/17/2004	9/24/2004	134		10/4/2004	
449	10/21/2004	10/27/2004	130	10/1/2004	10/7/2004	130	10/11/2004	10/15/2004	130

Table B-1: Continued [pg. 10 of 20]

	As-Plant	ned Schedule	Э	20-	Jun-03		June 24, 200	03 (Resched	uled)
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
450	5/4/2004	11/10/2004	10	4/14/2004	10/21/2004	10	4/22/2004	10/29/2004	10
451	5/4/2004	5/7/2004	10	4/14/2004	4/19/2004	10	4/22/2004	4/27/2004	10
452	5/10/2004	5/13/2004	10	4/20/2004	4/23/2004	10	4/28/2004	5/3/2004	10
453	5/14/2004	5/19/2004	10	4/26/2004	4/29/2004	10	5/4/2004	5/7/2004	10
454	5/20/2004	6/3/2004	10	4/30/2004	5/13/2004	10	5/10/2004	5/21/2004	10
455	6/11/2004	7/1/2004	75	5/21/2004	6/11/2004	75	6/1/2004	6/21/2004	75
456	6/11/2004	7/1/2004	75	5/21/2004	6/11/2004	75	6/1/2004	6/21/2004	75
457	6/18/2004	7/1/2004	0	5/28/2004	6/11/2004	0	6/8/2004	6/21/2004	0
458	6/8/2004	6/23/2004	91	5/18/2004	6/3/2004	91	5/26/2004	6/11/2004	91
459	6/9/2004	6/29/2004	84	5/19/2004	6/9/2004	84	5/27/2004	6/17/2004	84
460	7/6/2004	7/19/2004	75	6/14/2004	6/25/2004	75	6/22/2004	7/7/2004	75
461	7/6/2004	7/19/2004	75	6/14/2004	6/25/2004	75	6/22/2004	7/7/2004	75
462	7/6/2004	7/15/2004	77	6/14/2004	6/23/2004	77	6/22/2004	7/1/2004	77
463	6/4/2004	6/9/2004	90	5/14/2004	5/19/2004	90	5/24/2004	5/27/2004	90
464	6/10/2004	6/21/2004	90	5/20/2004	6/1/2004	90	5/28/2004	6/9/2004	90
465	6/22/2004	6/29/2004	90	6/2/2004	6/9/2004	90	6/10/2004	6/17/2004	90
466	6/30/2004	7/15/2004	171	6/10/2004	6/23/2004	171	6/18/2004	7/1/2004	171
467	7/20/2004	7/30/2004	75	6/28/2004	7/12/2004	75	7/8/2004	7/20/2004	75
468	7/26/2004	8/20/2004	79	7/6/2004	8/2/2004	79	7/14/2004	8/10/2004	79
469	8/2/2004	8/6/2004	75	7/13/2004	7/19/2004	75	7/21/2004	7/27/2004	75
470	8/9/2004	8/24/2004	75	7/20/2004	8/4/2004	75	7/28/2004	8/12/2004	75
471	8/19/2004	9/1/2004	75	7/30/2004	8/12/2004	75	8/9/2004	8/20/2004	75
472	8/23/2004	8/30/2004	79	8/3/2004	8/10/2004	79	8/11/2004	8/18/2004	79
473	9/2/2004	9/7/2004	75	8/13/2004	8/17/2004	75	8/23/2004	8/25/2004	75
474	9/8/2004	9/14/2004	75	8/18/2004	8/24/2004	75	8/26/2004	9/1/2004	75
475	8/2/2004	8/13/2004	168	7/13/2004	7/26/2004	168	7/21/2004	8/3/2004	168
476	7/16/2004	7/23/2004	171	6/24/2004	7/1/2004	171	7/6/2004	7/13/2004	171
477	8/31/2004	9/8/2004	145	8/11/2004	8/18/2004	145	8/19/2004	8/26/2004	145
478	9/9/2004	9/16/2004	145	8/19/2004	8/26/2004	145	8/27/2004	9/3/2004	145
479	9/17/2004	9/30/2004	145	8/27/2004	9/10/2004	145	9/7/2004	9/20/2004	145
480	9/8/2004	9/13/2004	76	8/18/2004	8/23/2004	76	8/26/2004	8/31/2004	76
481	8/31/2004	9/10/2004	79	8/11/2004	8/20/2004	79	8/19/2004	8/30/2004	79
482	10/1/2004	10/6/2004	145	9/13/2004	9/16/2004	145	9/21/2004	9/24/2004	145
483	9/8/2004	9/13/2004	76	8/18/2004	8/23/2004	76	8/26/2004	8/31/2004	76
484	9/9/2004	9/21/2004	156	8/19/2004	8/31/2004	156	8/27/2004	9/9/2004	156
485	9/13/2004	9/15/2004	160	8/23/2004	8/25/2004	160	8/31/2004	9/2/2004	160
486	9/13/2004	9/24/2004	153	8/23/2004	9/3/2004	153	8/31/2004	9/14/2004	153
487	9/13/2004	9/13/2004	79	8/23/2004	8/23/2004	79	8/31/2004	8/31/2004	79
488	9/15/2004	9/17/2004	75	8/25/2004	8/27/2004	75	9/2/2004	9/7/2004	75
489	9/20/2004	9/29/2004	75	8/30/2004	9/9/2004	75	9/8/2004	9/17/2004	75
490	9/30/2004	10/4/2004	127	9/10/2004	9/14/2004	127	9/20/2004	9/22/2004	127
491	10/7/2004	10/20/2004	68	9/17/2004	9/30/2004	68	9/27/2004	10/8/2004	68
492	10/21/2004	11/3/2004	125	10/1/2004	10/14/2004	125	10/11/2004	10/22/2004	125
493	10/21/2004	10/28/2004	129	10/1/2004	10/8/2004	129		10/18/2004	129
494	11/4/2004	11/10/2004	125	10/15/2004		125		10/29/2004	125
495	5/10/2004	11/30/2004	16	4/20/2004	11/8/2004	16	4/28/2004	11/16/2004	16
496	5/10/2004	5/13/2004	16	4/20/2004	4/23/2004	16	4/28/2004	5/3/2004	16
497	5/14/2004	5/19/2004	16		4/29/2004	16		5/7/2004	16
498	5/20/2004	5/25/2004	16		5/5/2004	16		5/13/2004	16
499	5/28/2004	6/11/2004	14		5/21/2004	14		6/1/2004	14
500	6/14/2004	7/6/2004	86	5/24/2004	6/14/2004	86	6/2/2004	6/22/2004	86

Table B-1: Continued [pg. 11 of 20]

	As-Planr	ned Schedule	Э	20-	Jun-03		June 24, 200	03 (Resched	uled)
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
501	6/14/2004	7/6/2004	86	5/24/2004	6/14/2004	86	6/2/2004	6/22/2004	86
502	7/6/2004	7/21/2004	0	6/14/2004	6/29/2004	0	6/22/2004	7/9/2004	0
503	6/24/2004	7/13/2004	91	6/4/2004	6/21/2004	91	6/14/2004	6/29/2004	91
504	6/30/2004	7/22/2004	84	6/10/2004	6/30/2004	84	6/18/2004	7/12/2004	84
505	7/7/2004	7/20/2004	86	6/15/2004	6/28/2004	86	6/23/2004	7/8/2004	86
506	7/7/2004	7/20/2004	86	6/15/2004	6/28/2004	86	6/23/2004	7/8/2004	86
507	7/22/2004	8/2/2004	77	6/30/2004	7/13/2004	77	7/12/2004	7/21/2004	77
508	7/23/2004	8/12/2004	168	7/1/2004	7/23/2004	168	7/13/2004	8/2/2004	168
509	8/6/2004	8/26/2004	168	7/19/2004	8/6/2004	168	7/27/2004	8/16/2004	168
510	8/20/2004	9/10/2004	168	8/2/2004	8/20/2004	168	8/10/2004	8/30/2004	168
511	6/14/2004	6/23/2004	96	5/24/2004	6/3/2004	96	6/2/2004	6/11/2004	96
512	6/24/2004	6/28/2004	108	6/4/2004	6/8/2004	108	6/14/2004	6/16/2004	108
513	6/29/2004	7/9/2004	108	6/9/2004	6/17/2004	108	6/17/2004	6/25/2004	108
514	5/14/2004	6/1/2004	134	4/26/2004	5/11/2004	134	5/4/2004	5/19/2004	134
515	6/24/2004	7/9/2004	96	6/4/2004	6/17/2004	96	6/14/2004	6/25/2004	96
516	7/12/2004	7/21/2004	96	6/18/2004	6/29/2004	96	6/28/2004	7/9/2004	96
517	7/22/2004	7/27/2004	96	6/30/2004	7/7/2004	96		7/15/2004	96
518	7/28/2004	8/3/2004	96	7/8/2004	7/14/2004	96		7/22/2004	96
519	8/4/2004	8/9/2004	96	7/15/2004	7/20/2004	96		7/28/2004	96
520	8/10/2004	8/18/2004	96	7/21/2004	7/29/2004	96		8/6/2004	96
521	8/19/2004	8/26/2004	96	7/30/2004	8/6/2004	96		8/16/2004	96
522	8/27/2004	8/30/2004	96	8/9/2004	8/10/2004	96		8/18/2004	96
523	8/31/2004	9/7/2004	96	8/11/2004	8/17/2004	96		8/25/2004	96
524	9/8/2004	9/10/2004	96	8/18/2004	8/20/2004	96		8/30/2004	96
525	10/21/2004	10/22/2004	68	10/1/2004	10/4/2004	68			68
526	6/14/2004	6/17/2004	96	5/24/2004	5/27/2004	96		6/7/2004	96
527	6/18/2004	6/29/2004	96	5/28/2004	6/9/2004	96		6/17/2004	96
528	6/30/2004	7/9/2004	96	6/10/2004	6/17/2004	96		6/25/2004	96
529	7/23/2004	8/9/2004	157	7/1/2004	7/20/2004	157	7/13/2004	7/28/2004	157
530	8/3/2004	8/13/2004	77	7/14/2004	7/26/2004	77	7/22/2004	8/3/2004	77
531	8/9/2004	9/3/2004	81	7/20/2004	8/16/2004	81	7/28/2004	8/24/2004	81
532	8/16/2004	8/20/2004	77	7/27/2004	8/2/2004	77	8/4/2004	8/10/2004	77
533	8/23/2004	9/8/2004	77	8/3/2004	8/18/2004	77	8/11/2004	8/26/2004	77
534	9/2/2004	9/16/2004	77	8/13/2004	8/26/2004	77	8/23/2004	9/3/2004	77
535	9/7/2004	9/14/2004	81	8/17/2004	8/24/2004	81		9/1/2004	81
536		9/21/2004	77		8/31/2004				
537	9/22/2004	9/28/2004	77	9/1/2004	9/8/2004	77		9/16/2004	
538	9/7/2004	9/20/2004			8/30/2004			9/8/2004	
539	8/10/2004	8/19/2004		7/21/2004	7/30/2004			8/9/2004	
540	8/20/2004	8/27/2004		8/2/2004	8/9/2004 8/17/2004		8/10/2004	8/17/2004	
541 542	8/30/2004	9/7/2004		8/10/2004	9/14/2004		8/18/2004	8/25/2004	
	9/21/2004	10/4/2004	148	8/31/2004				9/22/2004	
543	9/22/2004	9/27/2004	78 91	9/1/2004	9/7/2004	78 91		9/15/2004	78 91
544	9/15/2004	9/24/2004	81 149	8/25/2004	9/3/2004			9/14/2004	81 148
545	10/5/2004	10/8/2004 9/27/2004		9/15/2004	9/20/2004			9/28/2004	
546 547	9/22/2004	10/4/2004	78 152		9/1/2004			9/15/2004 9/22/2004	
548	9/22/2004	9/29/2004		9/1/2004	9/9/2004			9/17/2004	
549	9/27/2004 9/27/2004	10/8/2004	155	9/7/2004	9/9/2004			9/17/2004	
550	9/27/2004	9/27/2004	148 81	9/7/2004	9/7/2004	81		9/15/2004	81
550	312112004	312112004	01	9/1/2004	3/1/2004	01	3/13/2004	9/13/2004	01

Table B-1: Continued [pg. 12 of 20]

	As-Plani	ned Schedule	е	20-	Jun-03		June 24, 20	03 (Resched	uled)
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
551	9/29/2004	10/1/2004	77	9/9/2004	9/13/2004	77	9/17/2004	9/21/2004	77
552	10/4/2004	10/13/2004	77	9/14/2004	9/23/2004	77	9/22/2004	10/1/2004	77
553	10/14/2004	10/18/2004	120	9/24/2004	9/28/2004	120	10/4/2004	10/6/2004	120
554	10/25/2004	11/5/2004	68	10/5/2004	10/18/2004	68	10/13/2004	10/26/2004	68
555	11/8/2004	11/19/2004	118	10/19/2004	11/1/2004	118	10/27/2004	11/9/2004	118
556	11/8/2004	11/15/2004	122	10/19/2004	10/26/2004	122	10/27/2004	11/3/2004	122
557	11/22/2004	11/30/2004	118	11/2/2004	11/8/2004	118	11/10/2004	11/16/2004	118
558	7/15/2003	11/10/2003	35	6/18/2003	10/21/2003	35	6/27/2003	10/29/2003	35
559	7/15/2003	7/15/2003	41	6/18/2003	6/18/2003	45	6/27/2003	6/27/2003	44
560	8/21/2003	9/2/2003	15	8/1/2003	8/12/2003	15	8/11/2003	8/20/2003	15
561	7/16/2003	7/18/2003	41	6/19/2003	6/23/2003	45	6/30/2003	7/2/2003	44
562	8/26/2003	9/5/2003	15	8/6/2003	8/15/2003	15	8/14/2003	8/25/2003	15
563	8/27/2003	9/8/2003	15	8/7/2003	8/18/2003	15	8/15/2003	8/26/2003	15
564	9/3/2003	9/23/2003	15	8/13/2003	9/3/2003	15	8/21/2003	9/11/2003	15
565	9/24/2003	10/1/2003	15	9/4/2003	9/11/2003	15	9/12/2003	9/19/2003	15
566	10/2/2003	10/15/2003	15	9/12/2003	9/25/2003	15	9/22/2003	10/3/2003	15
567	9/24/2003	9/30/2003	35	9/4/2003	9/10/2003	35	9/12/2003	9/18/2003	35
568	10/1/2003	10/2/2003	35	9/11/2003	9/12/2003	35	9/19/2003	9/22/2003	35
569	10/3/2003	10/15/2003	35	9/15/2003	9/25/2003	35	9/23/2003	10/3/2003	35
570	10/16/2003	10/22/2003	35	9/26/2003	10/2/2003	35	10/6/2003	10/10/2003	35
571	10/23/2003	11/5/2003	35	10/3/2003	10/16/2003	35	10/13/2003	10/24/2003	35
572	11/6/2003	11/6/2003	35	10/17/2003	10/17/2003	35	10/27/2003	10/27/2003	35
573	11/7/2003	11/10/2003	35	10/20/2003	10/21/2003	35	10/28/2003	10/29/2003	35
574	10/9/2003	12/10/2003	15	9/19/2003	11/18/2003	15	9/29/2003	11/26/2003	15
575	10/10/2003	10/15/2003	15	9/22/2003	9/25/2003	15	9/30/2003	10/3/2003	15
576	10/10/2003	10/23/2003	15	9/22/2003	10/3/2003	15	9/30/2003	10/13/2003	15
577	10/9/2003	10/22/2003	15	9/19/2003	10/2/2003	15	9/29/2003	10/10/2003	15
578	10/23/2003	10/28/2003	44	10/3/2003	10/8/2003	44	10/13/2003	10/16/2003	44
579	10/15/2003	11/4/2003	15	9/25/2003	10/15/2003	15	10/3/2003	10/23/2003	15
580	10/24/2003	11/10/2003	15	10/6/2003	10/21/2003	15	10/14/2003	10/29/2003	15
581	11/11/2003	11/24/2003	15	10/22/2003	11/4/2003	15	10/30/2003	11/12/2003	15
582	11/20/2003	11/25/2003	15	10/31/2003	11/5/2003	15	11/10/2003	11/13/2003	15
583	11/20/2003	12/3/2003	15	10/31/2003	11/11/2003	15	11/10/2003	11/19/2003	15
584	12/4/2003	12/4/2003	15	11/12/2003	11/12/2003	15	11/20/2003	11/20/2003	15
585	12/5/2003	12/10/2003	15	11/13/2003	11/18/2003	15			15
586	12/11/2003	3/17/2004	15		2/26/2004	15			
587	12/11/2003	1/14/2004	15	11/19/2003	12/18/2003	15			15
588	1/15/2004	1/19/2004	15	12/19/2003	12/23/2003	15			15
589	1/20/2004	1/22/2004	28	12/29/2003	12/31/2003	28			28
590	1/23/2004	1/26/2004	28	1/5/2004	1/6/2004	28		1/14/2004	28
591	1/20/2004	1/29/2004	15	12/29/2003	1/9/2004	15			15
592	1/30/2004	2/9/2004	18	1/12/2004	1/20/2004	18		1/28/2004	18
593	2/10/2004	2/13/2004	18	1/21/2004	1/26/2004	18		2/3/2004	18
594	1/30/2004	2/10/2004	15	1/12/2004	1/21/2004	15		1/29/2004	15
595		2/13/2004	15	1/22/2004	1/26/2004	15		2/3/2004	15
596		2/18/2004	15	1/27/2004	1/29/2004	15		2/6/2004	15
597	2/19/2004	2/23/2004	15	1/30/2004	2/3/2004	15		2/11/2004	15
598		3/8/2004	15	2/4/2004	2/17/2004	15		2/25/2004	15
599		3/12/2004	15	2/6/2004	2/23/2004	15		3/2/2004	15
600	2/26/2004	3/17/2004	15	2/6/2004	2/26/2004	15	2/16/2004	3/5/2004	15

Table B-1: Continued [pg. 13 of 20]

	As-Planr	ned Schedule	Э	20-	Jun-03		June 24, 20	03 (Resched	uled)
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
601	2/19/2004	4/12/2004	35	1/30/2004	3/23/2004	35	2/9/2004	3/31/2004	35
602	3/18/2004	3/29/2004	15	2/27/2004	3/9/2004	15	3/8/2004	3/17/2004	15
603	3/25/2004	4/1/2004	29	3/5/2004	3/12/2004	29	3/15/2004	3/22/2004	29
604	2/19/2004	2/24/2004	98	1/30/2004	2/4/2004	98	2/9/2004	2/12/2004	98
605	2/25/2004	3/1/2004	98	2/5/2004	2/10/2004	98	2/13/2004	2/18/2004	98
606	3/2/2004	3/8/2004	98	2/11/2004	2/17/2004	98	2/19/2004	2/25/2004	98
607	4/2/2004	4/12/2004	37	3/15/2004	3/23/2004	37	3/23/2004	3/31/2004	37
608	4/2/2004	6/18/2004	29	3/15/2004	5/28/2004	29	3/23/2004	6/8/2004	29
609	4/2/2004	4/15/2004	29	3/15/2004	3/26/2004	29	3/23/2004	4/5/2004	29
610	4/16/2004	4/22/2004	29	3/29/2004	4/2/2004	29	4/6/2004	4/12/2004	29
611	4/23/2004	5/13/2004	29	4/5/2004	4/23/2004	29	4/13/2004	5/3/2004	29
612	4/28/2004	5/18/2004	29	4/8/2004	4/28/2004	29	4/16/2004	5/6/2004	29
613	5/13/2004	5/24/2004	220	4/23/2004	5/4/2004	220	5/3/2004	5/12/2004	220
614	5/25/2004	6/2/2004	220	5/5/2004	5/12/2004	220	5/13/2004	5/20/2004	220
615	6/3/2004	6/18/2004	220	5/13/2004	5/28/2004	220	5/21/2004	6/8/2004	220
616	3/30/2004	10/12/2004	15	3/10/2004	9/22/2004	15	3/18/2004	9/30/2004	15
617	3/30/2004	4/6/2004	15	3/10/2004	3/17/2004	15	3/18/2004	3/25/2004	15
618	4/7/2004	4/14/2004	15	3/18/2004	3/25/2004	15	3/26/2004	4/2/2004	15
619	4/15/2004	4/26/2004	15	3/26/2004	4/6/2004	15	4/5/2004	4/14/2004	15
620	4/27/2004	5/6/2004	15	4/7/2004	4/16/2004	15	4/15/2004	4/26/2004	15
621	5/7/2004	5/17/2004	15	4/19/2004	4/27/2004	15	4/27/2004	5/5/2004	15
622	5/18/2004	5/26/2004	15	4/28/2004	5/6/2004	15	5/6/2004	5/14/2004	15
623	5/27/2004	6/4/2004	15	5/7/2004	5/14/2004	15	5/17/2004	5/24/2004	15
624	6/7/2004	6/14/2004	15	5/17/2004	5/24/2004	15	5/25/2004	6/2/2004	15
625	4/22/2004	5/5/2004	56	4/2/2004	4/15/2004	56	4/12/2004	4/23/2004	56
626	5/6/2004	5/17/2004	63	4/16/2004	4/27/2004	63	4/26/2004	5/5/2004	63
627	5/18/2004	5/24/2004	76	4/28/2004	5/4/2004	76	5/6/2004	5/12/2004	76
628	6/15/2004	6/24/2004	72	5/25/2004	6/4/2004	72	6/3/2004	6/14/2004	72
629	5/28/2004	6/18/2004	40	5/10/2004	5/28/2004	40	5/18/2004	6/8/2004	40
630	6/21/2004	7/16/2004	40	6/1/2004	6/24/2004	40	6/9/2004	7/6/2004	40
631	7/19/2004	8/11/2004	40	6/25/2004	7/22/2004	40	7/7/2004	7/30/2004	40
632	8/12/2004	9/1/2004	40	7/23/2004	8/12/2004	40	8/2/2004	8/20/2004	40
633	9/2/2004	9/14/2004	147	8/13/2004	8/24/2004	147	8/23/2004	9/1/2004	147
634	8/12/2004	9/9/2004	160	7/23/2004	8/19/2004	160	8/2/2004	8/27/2004	160
635	9/2/2004	9/13/2004	158	8/13/2004	8/23/2004	158	8/23/2004	8/31/2004	158
636	8/19/2004	9/9/2004	160	7/30/2004	8/19/2004	160	8/9/2004	8/27/2004	160
637	8/12/2004	8/13/2004	178	7/23/2004	7/26/2004	178	8/2/2004	8/3/2004	178
638	9/15/2004	9/28/2004	147	8/25/2004	9/8/2004	147	9/2/2004	9/16/2004	147
639	9/29/2004	10/12/2004	147	9/9/2004	9/22/2004	147	9/17/2004	9/30/2004	147
640	3/18/2004	3/21/2005	34	2/27/2004	3/1/2005	34	3/8/2004	3/9/2005	34
641	5/19/2004	5/24/2004	29	4/29/2004	5/4/2004	29	5/7/2004	5/12/2004	29
642	6/15/2004	6/24/2004	15	5/25/2004	6/4/2004	15	6/3/2004	6/14/2004	15
643	3/18/2004	3/31/2004	108	2/27/2004	3/11/2004	108	3/8/2004	3/19/2004	108
644	4/1/2004	4/6/2004	108	3/12/2004	3/17/2004	108			108
645	6/25/2004	6/30/2004	31	6/7/2004	6/10/2004	31	6/15/2004	6/18/2004	31
646	7/1/2004	7/23/2004	31	6/11/2004	7/1/2004	31		7/13/2004	31
647	6/25/2004	7/14/2004	18	6/7/2004	6/22/2004	18	6/15/2004		
648	6/25/2004	7/19/2004	15	6/7/2004	6/25/2004	15	6/15/2004	7/7/2004	15
649	7/22/2004	8/18/2004	0	6/30/2004	7/29/2004	0	7/12/2004		
650	6/25/2004	7/26/2004	43	6/7/2004	7/6/2004	43	6/15/2004	7/14/2004	43

Table B-1: Continued [pg. 14 of 20]

As-Planned Schedule 20-Jun-03 June 24, 2003 (Reschedule D Start Finish TF Start Finish TF Start Finish TF Start Finish Start Start Finish Start Start Finish Start Finish Start Finish Start Start Finish Start Start Start Finish Start Start Start Start Finish Start St	TF 28 28 25 18 33 132 132 132 28 41 28 59 41
651 6/25/2004 7/26/2004 28 6/7/2004 7/6/2004 28 6/15/2004 7/14/2004 652 7/15/2004 8/4/2004 28 6/23/2004 7/15/2004 28 7/1/2004 7/23/2004 653 7/20/2004 8/9/2004 25 6/28/2004 7/20/2004 25 7/8/2004 7/28/2004 654 8/19/2004 9/9/2004 18 7/30/2004 8/19/2004 18 8/9/2004 8/27/2004 655 7/26/2004 8/2/2004 33 7/6/2004 7/13/2004 33 7/14/2004 7/21/2004 656 7/27/2004 8/16/2004 132 7/71/2004 7/27/2004 132 7/15/2004 8/4/2004 657 8/17/2004 9/28/2004 132 7/28/2004 8/17/2004 132 8/5/2004 8/25/2004 8/25/2004 8/25/2004 8/26/2004 9/16/2004 659 9/29/2004 132 9/17/2004 10/71/2004 8/29/2004 132 9/17/2004 8/29/2004 132 9/17/2004 8/29/2004 <th>28 25 18 33 132 132 132 28 41 28 59 41</th>	28 25 18 33 132 132 132 28 41 28 59 41
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654 8/19/2004 9/9/2004 18 7/30/2004 8/19/2004 18 8/9/2004 8/27/2004 655 7/26/2004 8/2/2004 33 7/6/2004 7/13/2004 33 7/14/2004 7/21/2004 656 7/27/2004 8/16/2004 132 7/7/2004 7/27/2004 132 7/15/2004 8/4/2004 657 8/17/2004 9/7/2004 132 7/28/2004 8/17/2004 132 8/5/2004 8/25/2004 658 9/8/2004 9/28/2004 132 8/18/2004 9/8/2004 132 8/26/2004 9/16/2004 659 9/29/2004 10/19/2004 132 9/9/2004 9/29/2004 132 9/17/2004 10/7/2004 660 8/10/2004 8/25/2004 28 7/21/2004 8/5/2004 28 7/29/2004 8/13/2004 661 9/10/2004 9/17/2004 8/27/2004 41 8/30/2004 8/26/2004 28 8/16/2004 9/3/2004 662 8/26/2004 9/16/2004 28 8/6/2004	33 132 132 132 132 28 41 28 59 41
655 7/26/2004 8/2/2004 33 7/6/2004 7/13/2004 33 7/14/2004 7/21/2004 656 7/27/2004 8/16/2004 132 7/7/2004 7/27/2004 132 7/15/2004 8/4/2004 657 8/17/2004 9/7/2004 132 7/28/2004 8/17/2004 132 8/5/2004 8/25/2004 658 9/8/2004 9/28/2004 132 8/18/2004 9/8/2004 132 8/26/2004 9/16/2004 659 9/29/2004 10/19/2004 132 9/9/2004 9/29/2004 132 9/17/2004 660 8/10/2004 8/25/2004 28 7/21/2004 8/5/2004 28 7/29/2004 8/13/2004 661 9/10/2004 9/17/2004 41 8/20/2004 8/27/2004 41 8/30/2004 9/3/2004 28 8/16/2004 9/3/2004 662 8/26/2004 9/16/2004 28 8/6/2004 8/26/2004 28 8/16/2004 9/3/2004 663 9/17/2004 <	132 132 132 132 28 41 28 59 41
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658 9/8/2004 9/28/2004 132 8/18/2004 9/8/2004 132 8/26/2004 9/16/2004 659 9/29/2004 10/19/2004 132 9/9/2004 9/29/2004 132 9/17/2004 10/7/2004 660 8/10/2004 8/25/2004 28 7/21/2004 8/5/2004 28 7/29/2004 8/13/2004 661 9/10/2004 9/17/2004 41 8/20/2004 8/27/2004 41 8/30/2004 9/7/2004 662 8/26/2004 9/16/2004 28 8/6/2004 8/26/2004 28 8/16/2004 9/3/2004 663 9/17/2004 10/4/2004 59 8/27/2004 9/14/2004 59 9/7/2004 9/22/2004 664 9/20/2004 10/1/2004 41 8/30/2004 9/13/2004 41 9/8/2004 9/21/2004	132 132 28 41 28 59 41
659 9/29/2004 10/19/2004 132 9/9/2004 9/29/2004 132 9/17/2004 10/7/2004 10/7/2004 660 8/10/2004 8/25/2004 28 7/21/2004 8/5/2004 28 7/29/2004 8/13/2004 661 9/10/2004 9/17/2004 41 8/20/2004 8/27/2004 41 8/30/2004 9/7/2004 662 8/26/2004 9/16/2004 28 8/6/2004 8/26/2004 28 8/16/2004 9/3/2004 663 9/17/2004 10/4/2004 59 8/27/2004 9/14/2004 59 9/7/2004 9/21/2004 664 9/20/2004 10/1/2004 41 8/30/2004 9/13/2004 41 9/8/2004 9/21/2004	132 28 41 28 59 41
660 8/10/2004 8/25/2004 28 7/21/2004 8/5/2004 28 7/29/2004 8/13/2004 661 9/10/2004 9/17/2004 41 8/20/2004 8/27/2004 41 8/30/2004 9/7/2004 662 8/26/2004 9/16/2004 28 8/6/2004 8/26/2004 28 8/16/2004 9/3/2004 663 9/17/2004 10/4/2004 59 8/27/2004 9/14/2004 59 9/7/2004 9/22/2004 664 9/20/2004 10/1/2004 41 8/30/2004 9/13/2004 41 9/8/2004 9/21/2004	28 41 28 59 41
661 9/10/2004 9/17/2004 41 8/20/2004 8/27/2004 41 8/30/2004 9/7/2004 662 8/26/2004 9/16/2004 28 8/6/2004 8/26/2004 28 8/16/2004 9/3/2004 663 9/17/2004 10/4/2004 59 8/27/2004 9/14/2004 59 9/7/2004 9/22/2004 664 9/20/2004 10/1/2004 41 8/30/2004 9/13/2004 41 9/8/2004 9/21/2004	41 28 59 41
662 8/26/2004 9/16/2004 28 8/6/2004 8/26/2004 28 8/16/2004 9/3/2004 663 9/17/2004 10/4/2004 59 8/27/2004 9/14/2004 59 9/7/2004 9/22/2004 664 9/20/2004 10/1/2004 41 8/30/2004 9/13/2004 41 9/8/2004 9/21/2004	28 59 41
663 9/17/2004 10/4/2004 59 8/27/2004 9/14/2004 59 9/7/2004 9/22/2004 664 9/20/2004 10/1/2004 41 8/30/2004 9/13/2004 41 9/8/2004 9/21/2004	59 41
663 9/17/2004 10/4/2004 59 8/27/2004 9/14/2004 59 9/7/2004 9/22/2004 664 9/20/2004 10/1/2004 41 8/30/2004 9/13/2004 41 9/8/2004 9/21/2004	41
664 9/20/2004 10/1/2004 41 8/30/2004 9/13/2004 41 9/8/2004 9/21/2004	41
	40
	18
666 10/1/2004 10/12/2004 18 9/13/2004 9/22/2004 18 9/21/2004 9/30/2004	18
667 10/13/2004 10/26/2004 114 9/23/2004 10/6/2004 114 10/1/2004 10/14/2004	114
668 10/13/2004 10/26/2004 114 9/23/2004 10/6/2004 114 10/1/2004 10/14/2004	114
669 10/13/2004 11/2/2004 18 9/23/2004 10/13/2004 18 10/1/2004 10/21/2004	18
670 10/13/2004 10/26/2004 66 9/23/2004 10/6/2004 66 10/1/2004 10/14/2004	66
671 10/4/2004 10/15/2004 41 9/14/2004 9/27/2004 41 9/22/2004 10/5/2004	41
672 10/18/2004 10/25/2004 41 9/28/2004 10/5/2004 41 10/6/2004 10/13/2004	41
673 10/26/2004 10/28/2004 41 10/6/2004 10/8/2004 41 10/14/2004 10/18/2004	41
674 11/3/2004 11/23/2004 18 10/14/2004 11/3/2004 18 10/22/2004 11/11/2004	18
675 11/24/2004 12/2/2004 18 11/4/2004 11/10/2004 18 11/12/2004 11/18/2004	18
676 12/3/2004 12/16/2004 18 11/11/2004 11/24/2004 18 11/19/2004 12/6/2004	18
677 12/17/2004 12/28/2004 70 11/29/2004 12/7/2004 70 12/7/2004 12/15/2004	70
678 12/10/2004 1/10/2005 18 11/18/2004 12/17/2004 18 11/30/2004 12/28/2004	18
679 1/11/2005 1/24/2005 64 12/20/2004 1/4/2005 64 12/29/2004 1/12/2005	64
680 1/11/2005 1/17/2005 18 12/20/2004 12/27/2004 18 12/29/2004 1/5/2005	18
681 12/3/2004 12/8/2004 47 11/11/2004 11/16/2004 47 11/19/2004 11/24/2004	47
682 10/13/2004 10/18/2004 72 9/23/2004 9/28/2004 72 10/1/2004 10/6/2004	72
683 1/18/2005 1/27/2005 18 12/28/2004 1/7/2005 18 1/6/2005 1/17/2005	
684 11/3/2004 11/16/2004 61 10/14/2004 10/27/2004 61 10/22/2004 11/4/2004	61
685 1/11/2005 1/17/2005 72 12/20/2004 12/27/2004 72 12/29/2004 1/5/2005	72
686 1/28/2005 2/17/2005 34 1/10/2005 1/28/2005 34 1/18/2005 2/7/2005	
687 1/21/2005 2/10/2005 18 1/3/2005 1/21/2005 18 1/11/2005 1/31/2005	
688 1/18/2005 1/18/2005 71 12/28/2004 12/28/2004 71 1/6/2005 1/6/2005	
689 2/18/2005 3/10/2005 34 1/31/2005 2/18/2005 34 2/8/2005 2/28/2005	
690 1/18/2005 1/26/2005 65 12/28/2004 1/6/2005 65 1/6/2005 1/14/2005	
691 3/11/2005 3/21/2005 34 2/21/2005 3/1/2005 34 3/1/2005 3/9/2005	
692 5/25/2004 4/25/2005 16 5/5/2004 4/5/2005 16 5/13/2004 4/13/2005	
693 5/25/2004 6/15/2004 32 5/5/2004 5/25/2004 32 5/13/2004 6/3/2004	
694 6/25/2004 7/12/2004 20 6/7/2004 6/18/2004 20 6/15/2004 6/28/2004	20
695 7/13/2004 7/16/2004 46 6/21/2004 6/24/2004 46 6/29/2004 7/6/2004	46
696 7/19/2004 8/6/2004 148 6/25/2004 7/19/2004 148 7/7/2004 7/27/2004	148
697 7/19/2004 7/22/2004 46 6/25/2004 6/30/2004 46 7/7/2004 7/12/2004	46
698 7/26/2004 8/10/2004 31 7/6/2004 7/21/2004 31 7/14/2004 7/29/2004	31
699 7/15/2004 8/11/2004 18 6/23/2004 7/22/2004 18 7/1/2004 7/30/2004	18
700 7/20/2004 8/16/2004 15 6/28/2004 7/27/2004 15 7/8/2004 8/4/2004	

Table B-1: Continued [pg. 15 of 20]

	As-Plani	ned Schedule	Э	20-	Jun-03		June 24, 20	03 (Resched	uled)
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
701	8/19/2004	9/14/2004	0	7/30/2004	8/24/2004	0	8/9/2004	9/1/2004	0
702	7/27/2004	8/16/2004	43	7/7/2004	7/27/2004	43	7/15/2004	8/4/2004	43
703	7/27/2004	8/16/2004	28	7/7/2004	7/27/2004	28	7/15/2004	8/4/2004	28
704	8/5/2004	8/25/2004	28	7/16/2004	8/5/2004	28	7/26/2004	8/13/2004	28
705	8/10/2004	8/30/2004	25	7/21/2004	8/10/2004	25	7/29/2004	8/18/2004	25
706	9/15/2004	10/5/2004	15	8/25/2004	9/15/2004	15	9/2/2004	9/23/2004	15
707	7/23/2004	7/30/2004	46	7/1/2004	7/12/2004	46	7/13/2004	7/20/2004	46
708	8/17/2004	9/7/2004	72	7/28/2004	8/17/2004	72	8/5/2004	8/25/2004	72
709	8/31/2004	9/22/2004	25	8/11/2004	9/1/2004	25	8/19/2004	9/10/2004	25
710	10/6/2004	10/13/2004	16	9/16/2004	9/23/2004	16	9/24/2004	10/1/2004	16
711	10/14/2004	11/3/2004	16	9/24/2004	10/14/2004	16	10/4/2004	10/22/2004	16
712	11/4/2004	11/24/2004	16	10/15/2004	11/4/2004	16	10/25/2004	11/12/2004	16
713	8/9/2004	8/12/2004	148	7/20/2004	7/23/2004	148	7/28/2004	8/2/2004	148
714	9/15/2004	9/17/2004	123	8/25/2004	8/27/2004	123	9/2/2004	9/7/2004	123
715	9/20/2004	10/5/2004	123	8/30/2004	9/15/2004	123	9/8/2004	9/23/2004	123
716	10/14/2004	10/27/2004	65	9/24/2004	10/7/2004	65	10/4/2004	10/15/2004	65
717	11/29/2004	12/10/2004	16	11/5/2004	11/18/2004	16	11/15/2004	11/30/2004	16
718	12/13/2004	12/27/2004	83	11/19/2004	12/6/2004	83	12/1/2004	12/14/2004	83
719	12/13/2004	12/27/2004	83	11/19/2004	12/6/2004	83	12/1/2004	12/14/2004	83
720	12/13/2004	1/4/2005	16	11/19/2004	12/13/2004	16	12/1/2004	12/21/2004	16
721	12/13/2004	12/27/2004	61	11/19/2004	12/6/2004	61	12/1/2004	12/14/2004	61
722	11/29/2004	12/1/2004	60	11/5/2004	11/9/2004	60	11/15/2004	11/17/2004	60
723	1/5/2005	1/7/2005	62	12/14/2004	12/16/2004	62	12/22/2004	12/27/2004	62
724	1/10/2005	1/28/2005	62	12/17/2004	1/10/2005	62	12/28/2004	1/18/2005	62
725	1/20/2005	1/31/2005	62	12/30/2004	1/11/2005	62	1/10/2005	1/19/2005	62
726	1/20/2005	1/31/2005	62	12/30/2004	1/11/2005	62	1/10/2005	1/19/2005	62
727	10/28/2004	11/8/2004	65	10/8/2004	10/19/2004	65	10/18/2004	10/27/2004	65
728	11/9/2004	11/16/2004	65	10/20/2004	10/27/2004	65	10/28/2004	11/4/2004	65
729	11/17/2004	11/22/2004	65	10/28/2004	11/2/2004	65	11/5/2004	11/10/2004	65
730	12/20/2004	1/18/2005	16	11/30/2004	12/28/2004	16	12/8/2004	1/6/2005	16
731	1/19/2005	2/3/2005	16	12/29/2004	1/14/2005	16	1/7/2005	1/24/2005	16
732	2/4/2005	2/24/2005	16	1/17/2005	2/4/2005	16	1/25/2005	2/14/2005	16
733	2/25/2005	3/3/2005	16	2/7/2005	2/11/2005	16	2/15/2005	2/21/2005	16
734	3/4/2005	3/31/2005	16	2/14/2005	3/11/2005	16	2/22/2005	3/21/2005	16
735					3/25/2005	16			
736	2/25/2005	3/3/2005	39	2/7/2005	2/11/2005	39	2/15/2005	2/21/2005	39
737	2/25/2005	3/2/2005	47	2/7/2005	2/10/2005	47	2/15/2005	2/18/2005	47
738	2/4/2005	2/25/2005	25	1/17/2005	2/7/2005	25	1/25/2005	2/15/2005	25
739	12/13/2004		68	11/19/2004	11/30/2004	68	12/1/2004	12/8/2004	68
740	2/25/2005	3/14/2005	27	2/7/2005	2/22/2005	27	2/15/2005	3/2/2005	27
741	1/5/2005	1/18/2005	56	12/14/2004	12/28/2004	56	12/22/2004	1/6/2005	56
742	4/1/2005	4/11/2005	19	3/14/2005	3/22/2005	19	3/22/2005	3/30/2005	19
743	2/22/2005	3/2/2005	25	2/2/2005	2/10/2005	25		2/18/2005	25
744	1/5/2005	1/25/2005	61	12/14/2004	1/5/2005	61	12/22/2004	1/13/2005	61
745	3/4/2005	3/24/2005	24	2/14/2005	3/4/2005	24	2/22/2005	3/14/2005	24
746	3/4/2005 3/18/2005	3/4/2005	45	2/14/2005	2/14/2005	45	2/22/2005	2/22/2005	45 24
747 748		4/4/2005	24	2/28/2005 2/14/2005	3/15/2005 2/22/2005	24 39		3/23/2005 3/2/2005	39
	3/4/2005	3/14/2005	39						
749	4/15/2005	4/25/2005	16	3/28/2005	4/5/2005	16	4/5/2005	4/13/2005	16

Table B-1: Continued [pg. 16 of 20]

	As-Plani	ned Schedule	Э	20-	Jun-03		June 24, 20	03 (Resched	uled)
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
750	7/13/2004	11/29/2004	35	6/21/2004	11/5/2004	35	6/29/2004	11/15/2004	35
751	7/13/2004	7/16/2004	35	6/21/2004	6/24/2004	35	6/29/2004	7/6/2004	35
752	7/19/2004	7/20/2004	35	6/25/2004	6/28/2004	35	7/7/2004	7/8/2004	35
753	7/21/2004	8/10/2004	35	6/29/2004	7/21/2004	35	7/9/2004	7/29/2004	35
754	8/11/2004	8/18/2004	119	7/22/2004	7/29/2004	119	7/30/2004	8/6/2004	119
755	8/19/2004	8/24/2004	119	7/30/2004	8/4/2004	119	8/9/2004	8/12/2004	119
756	8/25/2004	8/30/2004	119	8/5/2004	8/10/2004	119	8/13/2004	8/18/2004	119
757	8/31/2004	9/1/2004	119	8/11/2004	8/12/2004	119	8/19/2004	8/20/2004	119
758	8/31/2004	9/1/2004	119	8/11/2004	8/12/2004	119	8/19/2004	8/20/2004	119
759	8/31/2004	8/31/2004	120	8/11/2004	8/11/2004	120	8/19/2004	8/19/2004	120
760	8/31/2004	9/1/2004	119	8/11/2004	8/12/2004	119	8/19/2004	8/20/2004	119
761	8/31/2004	8/31/2004	120	8/11/2004	8/11/2004	120	8/19/2004	8/19/2004	120
762	8/25/2004	8/25/2004	124	8/5/2004	8/5/2004	124	8/13/2004	8/13/2004	124
763	9/2/2004	9/16/2004	119	8/13/2004	8/26/2004	119	8/23/2004	9/3/2004	
764	8/26/2004	8/31/2004	166	8/6/2004	8/11/2004			8/19/2004	
765	9/17/2004	10/4/2004	119	8/27/2004	9/14/2004	119	9/7/2004	9/22/2004	119
766	10/5/2004	10/25/2004	119	9/15/2004	10/5/2004	119	9/23/2004	10/13/2004	119
767	10/26/2004	10/29/2004	119	10/6/2004	10/11/2004	119	10/14/2004	10/19/2004	119
768	9/10/2004	9/23/2004	152	8/20/2004	9/2/2004	152	8/30/2004	9/13/2004	152
769	9/10/2004	9/23/2004	157	8/20/2004	9/2/2004	157	8/30/2004	9/13/2004	157
770	10/26/2004	11/8/2004	128	10/6/2004	10/19/2004	128	10/14/2004	10/27/2004	128
771	9/24/2004	9/30/2004	152	9/3/2004	9/10/2004	152	9/14/2004	9/20/2004	152
772	10/15/2004	10/22/2004	124	9/27/2004	10/4/2004	124	10/5/2004	10/12/2004	124
773	11/1/2004	11/12/2004	119	10/12/2004	10/25/2004	119	10/20/2004	11/2/2004	119
774	11/15/2004	11/16/2004	119	10/26/2004	10/27/2004	119		11/4/2004	119
775	11/9/2004	11/10/2004	128		10/21/2004			10/29/2004	128
776	11/17/2004	11/23/2004	119		11/3/2004			11/11/2004	119
777	8/12/2004		18		8/5/2004			8/13/2004	18
778	8/17/2004	8/30/2004	15	7/28/2004	8/10/2004	15	8/5/2004	8/18/2004	15
779	9/15/2004	9/28/2004	0	8/25/2004	9/8/2004	0	9/2/2004	9/16/2004	0
780	8/17/2004	8/24/2004	43		8/4/2004		8/5/2004	8/12/2004	43
781	8/17/2004	8/30/2004	28		8/10/2004			8/18/2004	28
782	8/26/2004	9/2/2004	29		8/13/2004			8/23/2004	29
783	8/31/2004		26		8/18/2004			8/26/2004	26
784	10/6/2004		15	9/16/2004	9/27/2004	15		10/5/2004	15
785	8/31/2004		160		8/16/2004			8/24/2004	
786	8/11/2004				8/2/2004			8/10/2004	163
787	10/18/2004		124		10/1/2004			10/11/2004	
788	10/22/2004			10/4/2004	10/6/2004			10/14/2004	
789	10/27/2004			10/7/2004	10/15/2004			10/25/2004	
790	10/27/2004		129	10/7/2004	10/12/2004			10/20/2004	
791	10/27/2004							10/20/2004	
792	10/27/2004		131	10/7/2004	10/8/2004			10/18/2004	
793	11/2/2004		124					10/27/2004	
794	11/5/2004			10/18/2004	10/18/2004			10/26/2004	
795	11/9/2004		124	10/20/2004	10/22/2004			11/1/2004	
796	11/12/2004		125	10/25/2004	10/26/2004			11/3/2004	
797	11/9/2004		125	10/20/2004	10/26/2004			11/3/2004	125
798	11/12/2004		124	10/25/2004	10/26/2004			11/3/2004	
799	11/16/2004		124	10/27/2004	10/27/2004			11/4/2004	
800	11/12/2004		125	10/25/2004	10/26/2004			11/3/2004	
801	11/24/2004	11/29/2004	119	11/4/2004	11/5/2004	119	11/12/2004	11/15/2004	119

Table B-1: Continued [pg. 17 of 20]

	As-Plani	ned Schedule	е	20-	Jun-03		June 24, 20	03 (Resched	uled)
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
802	7/16/2003	11/24/2003	143	6/19/2003	11/4/2003	147	6/30/2003	11/12/2003	146
803	7/16/2003	7/16/2003	143	6/19/2003	6/19/2003	147	6/30/2003	6/30/2003	146
804	7/17/2003	7/30/2003	143	6/20/2003	7/3/2003	147	7/1/2003	7/15/2003	146
805	9/3/2003	9/5/2003	120	8/13/2003	8/15/2003	120	8/21/2003	8/25/2003	120
806	9/8/2003	9/25/2003	120	8/18/2003	9/5/2003	120	8/26/2003	9/15/2003	120
807	9/9/2003	9/26/2003	120	8/19/2003	9/8/2003	120	8/27/2003	9/16/2003	120
808	9/15/2003	9/24/2003	123	8/25/2003	9/4/2003	123	9/3/2003	9/12/2003	123
809	9/25/2003	9/26/2003	133	9/5/2003	9/8/2003	133	9/15/2003	9/16/2003	133
810	9/23/2003	9/29/2003	120	9/3/2003	9/9/2003	120	9/11/2003	9/17/2003	120
811	9/30/2003	10/15/2003	120	9/10/2003	9/25/2003	120	9/18/2003	10/3/2003	120
812	10/16/2003	10/17/2003	120	9/26/2003	9/29/2003	120	10/6/2003	10/7/2003	120
813	10/20/2003	10/17/2003	120			120		10/16/2003	120
				9/30/2003	10/8/2003		10/8/2003		_
814	10/29/2003	10/29/2003	120	10/9/2003	10/9/2003	120		10/17/2003	120
815	10/30/2003	10/31/2003	120	10/10/2003	10/13/2003	120	10/20/2003	10/21/2003	120
816	11/3/2003	11/21/2003	204	10/14/2003	11/3/2003	204	10/22/2003	11/11/2003	204
817	11/3/2003	11/4/2003	120	10/14/2003	10/15/2003	120	10/22/2003	10/23/2003	120
818	11/5/2003	11/24/2003	120	10/16/2003	11/4/2003	120	10/24/2003	11/12/2003	120
819	1/15/2004	4/5/2004	90	12/19/2003	3/16/2004	90	1/5/2004	3/24/2004	90
820	1/15/2004	2/4/2004	90	12/19/2003	1/15/2004	90	1/5/2004	1/23/2004	90
821	2/5/2004	2/13/2004	90	1/16/2004	1/26/2004	90	1/26/2004	2/3/2004	90
822	2/16/2004	2/19/2004	90	1/27/2004	1/30/2004	90	2/4/2004	2/9/2004	90
823	2/20/2004	2/25/2004	90	2/2/2004	2/5/2004	90	2/10/2004	2/13/2004	90
824	2/26/2004	2/27/2004	94	2/6/2004	2/9/2004	94	2/16/2004	2/17/2004	94
825	2/20/2004	2/25/2004	90	2/2/2004	2/5/2004	90	2/10/2004	2/13/2004	90
826	2/26/2004	3/2/2004	90	2/6/2004	2/11/2004	90	2/16/2004	2/19/2004	90
827	3/1/2004	3/2/2004	94	2/10/2004	2/11/2004	94	2/18/2004	2/19/2004	94
828	2/16/2004	2/25/2004	90	1/27/2004	2/5/2004	90	2/4/2004	2/13/2004	90
829	2/26/2004	3/2/2004	90	2/6/2004	2/11/2004	90	2/16/2004	2/19/2004	90
830	3/3/2004	3/3/2004	90	2/12/2004	2/12/2004	90	2/20/2004	2/20/2004	90
831	3/4/2004	3/8/2004	90	2/13/2004	2/17/2004	90	2/23/2004	2/25/2004	90
832	3/9/2004	3/12/2004	90	2/18/2004	2/23/2004	90		3/2/2004	90
833	3/15/2004	3/30/2004	91	2/24/2004	3/10/2004	91	3/3/2004	3/18/2004	91
834	3/31/2004	4/5/2004	110	3/11/2004	3/16/2004	110	3/19/2004	3/24/2004	110
835	3/31/2004	7/6/2004	91	3/11/2004	6/14/2004	91	3/19/2004	6/22/2004	91
836	3/31/2004	4/27/2004	91	3/11/2004	4/7/2004	91	3/19/2004	4/15/2004	91
837	3/31/2004	4/9/2004	109	3/11/2004	3/22/2004	109		3/30/2004	109
							3/19/2004		
838	4/28/2004	5/5/2004	91	4/8/2004	4/15/2004	91	4/16/2004	4/23/2004	91
839	5/6/2004	5/13/2004	91	4/16/2004	4/23/2004	91	4/26/2004	5/3/2004	91
840	5/14/2004	5/25/2004	233	4/26/2004	5/5/2004	233	5/4/2004	5/13/2004	233
841	5/26/2004	6/1/2004	233	5/6/2004	5/11/2004	233	5/14/2004	5/19/2004	233
842	6/21/2004	7/6/2004	220	6/1/2004	6/14/2004	220	6/9/2004	6/22/2004	220
843	6/15/2004	12/21/2004	25	5/25/2004	12/1/2004	25	6/3/2004	12/9/2004	25
844	6/15/2004	6/25/2004	25	5/25/2004	6/7/2004	25	6/3/2004	6/15/2004	25
845	6/28/2004	7/12/2004	25	6/8/2004	6/18/2004	25	6/16/2004	6/28/2004	25
846	7/13/2004	7/23/2004	25		7/1/2004	25	6/29/2004	7/13/2004	25
847	7/26/2004	8/5/2004	25	7/6/2004	7/16/2004	25	7/14/2004	7/26/2004	25
848	6/28/2004	7/8/2004	79	6/8/2004	6/16/2004	79	6/16/2004	6/24/2004	79
849	7/13/2004	7/23/2004	81	6/21/2004	7/1/2004	81	6/29/2004	7/13/2004	81
850	7/26/2004	8/2/2004	90	7/6/2004	7/13/2004	90	7/14/2004	7/21/2004	90
851	8/6/2004	8/16/2004	93	7/19/2004	7/27/2004	93	7/27/2004	8/4/2004	93
852	9/2/2004	9/21/2004	40	8/13/2004	8/31/2004	40		9/9/2004	
853	9/22/2004	10/12/2004	40	9/1/2004	9/22/2004	40		9/30/2004	40
854	10/13/2004	10/29/2004	40	9/23/2004	10/11/2004	40		10/19/2004	
855	11/1/2004	11/15/2004	40	10/12/2004	10/26/2004	40		11/3/2004	
856	11/2/2004	11/22/2004	40		11/2/2004	40		11/10/2004	
857	11/9/2004	11/22/2004	108	10/20/2004	11/2/2004	108		11/10/2004	
858	11/16/2004	12/1/2004			11/9/2004	103		11/17/2004	
859	12/2/2004	12/15/2004	103		11/23/2004	103		12/3/2004	
860	12/16/2004	12/13/2004	103		12/1/2004	103			103
000	12/10/2004	12/21/2004	103	11/24/2004	12/1/2004	103	12/0/2004	12/3/2004	103

Table B-1: Continued [pg. 18 of 20]

	As-Plani	ned Schedul	е	20-Jun-03			June 24, 2003 (Rescheduled)			
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	
861	8/6/2004	3/23/2005	25	7/19/2004	3/3/2005	25	7/27/2004	3/11/2005	25	
862	8/6/2004	8/12/2004	25	7/19/2004	7/23/2004	25	7/27/2004	8/2/2004	25	
863	8/13/2004	8/26/2004	90	7/26/2004	8/6/2004	90	8/3/2004	8/16/2004	90	
864	8/27/2004	8/31/2004	90	8/9/2004	8/11/2004	90	8/17/2004	8/19/2004	90	
865	8/26/2004	9/7/2004	18	8/6/2004	8/17/2004	18	8/16/2004	8/25/2004	18	
866	8/27/2004	9/10/2004	15	8/9/2004	8/20/2004	15	8/17/2004	8/30/2004	15	
867	9/29/2004	10/19/2004	0	9/9/2004	9/29/2004	0	9/17/2004	10/7/2004	0	
868	8/25/2004	9/3/2004	43	8/5/2004	8/16/2004	43	8/13/2004	8/24/2004	43	
869	8/31/2004	9/16/2004	28	8/11/2004	8/26/2004	28	8/19/2004	9/3/2004	28	
870	9/8/2004	9/15/2004	27	8/18/2004	8/25/2004	27	8/26/2004	9/2/2004	27	
871	9/13/2004	9/20/2004	24	8/23/2004	8/30/2004	24	8/31/2004	9/8/2004	24	
872	10/20/2004	10/29/2004	13	9/30/2004	10/11/2004	13	10/8/2004	10/19/2004	13	
873	8/13/2004	8/18/2004	25	7/26/2004	7/29/2004	25	8/3/2004	8/6/2004	25	
874	8/19/2004	9/3/2004	25	7/30/2004	8/16/2004	25	8/9/2004	8/24/2004	25	
875	9/7/2004	9/16/2004	95	8/17/2004	8/26/2004	95	8/25/2004	9/3/2004	95	
876	9/7/2004	9/9/2004	54	8/17/2004	8/19/2004	54	8/25/2004	8/27/2004	54	
877	9/21/2004	10/18/2004	47	8/31/2004	9/28/2004	47	9/9/2004	10/6/2004	47	
878	11/1/2004	11/4/2004	44	10/12/2004	10/15/2004	44	10/20/2004	10/25/2004	44	
879	10/19/2004	11/1/2004	47	9/29/2004	10/12/2004	47	10/7/2004	10/20/2004	47	
880	11/5/2004	11/18/2004	44	10/18/2004	10/29/2004	44	10/26/2004	11/8/2004	44	
881	11/19/2004	11/30/2004	47	11/1/2004	11/8/2004	47	11/9/2004	11/16/2004	47	
882	11/19/2004	12/2/2004	50	11/1/2004	11/10/2004	50	11/9/2004	11/18/2004	50	
883	12/3/2004	12/13/2004	92	11/11/2004	11/19/2004	92	11/19/2004	12/1/2004	92	
884	12/3/2004	12/14/2004	50	11/11/2004	11/22/2004	50	11/19/2004	12/2/2004	50	
885	12/3/2004	12/9/2004	53	11/11/2004	11/17/2004	53	11/19/2004	11/29/2004	53	
886	12/3/2004	12/14/2004	50	11/11/2004	11/22/2004	50	11/19/2004	12/2/2004	50	
887	11/19/2004	12/8/2004	44	11/1/2004	11/16/2004	44	11/9/2004	11/24/2004	44	
888	12/9/2004	12/22/2004	44	11/17/2004	12/2/2004	44	11/29/2004	12/10/2004	44	
889	12/1/2004	12/7/2004	47	11/9/2004	11/15/2004	47	11/17/2004	11/23/2004	47	
890	12/8/2004	12/13/2004	47	11/16/2004	11/19/2004	47	11/24/2004	12/1/2004	47	
891	12/14/2004	12/17/2004	47	11/22/2004	11/29/2004	47	12/2/2004	12/7/2004	47	
892	12/23/2004	1/5/2005	44	12/3/2004	12/14/2004	44	12/13/2004	12/22/2004	44	
893	1/6/2005	1/10/2005	77	12/15/2004	12/17/2004	77	12/23/2004	12/28/2004	77	
894	1/6/2005	1/10/2005	70	12/15/2004	12/17/2004	70	12/23/2004	12/28/2004	70	
895	12/15/2004	12/17/2004	55	11/23/2004	11/29/2004	55	12/3/2004	12/7/2004	55	
896	12/15/2004	12/17/2004	91	11/23/2004	11/29/2004	91	12/3/2004	12/7/2004	91	
897	1/6/2005	1/11/2005	76	12/15/2004	12/20/2004	76	12/23/2004	12/29/2004	76	
898	1/11/2005	1/19/2005	70	12/20/2004	12/29/2004	70	12/29/2004	1/7/2005	70	
899	2/11/2005	3/3/2005	18	1/24/2005	2/11/2005	18	2/1/2005	2/21/2005	18	
900	3/4/2005	3/17/2005	29	2/14/2005	2/25/2005	29	2/22/2005	3/7/2005	29	

Table B-1: Continued [pg. 19 of 20]

	As-Plan	ned Schedule	-	20-	Jun-03		June 24, 20	03 (Reschedi	uled)
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF
901	1/6/2005		75	12/15/2004		75			
902	3/18/2005		29	2/28/2005	3/3/2005	29			29
903	8/13/2004	4/13/2005	19	7/26/2004	3/24/2005	19	8/3/2004	4/1/2005	19
904	8/13/2004		30	7/26/2004	7/30/2004	30	8/3/2004	8/9/2004	30
905	9/8/2004	9/28/2004	18	8/18/2004	9/8/2004	18		9/16/2004	18
906	9/13/2004	10/1/2004	15	8/23/2004	9/13/2004	15		9/21/2004	15
907	10/20/2004	11/9/2004	0	9/30/2004	10/20/2004	0			0
908	9/7/2004	9/22/2004	43	8/17/2004	9/1/2004	43	8/25/2004	9/10/2004	43
909	9/17/2004	10/7/2004	28	8/27/2004	9/17/2004	28		9/27/2004	28
910	9/29/2004	10/12/2004	18	9/9/2004	9/22/2004	18	9/17/2004	9/30/2004	18
911	10/4/2004	10/15/2004	15	9/14/2004	9/27/2004	15	9/22/2004	10/5/2004	15
912	11/4/2004	11/17/2004	10	10/15/2004	10/28/2004	10	10/25/2004	11/5/2004	10
913	8/20/2004	8/24/2004	33	8/2/2004	8/4/2004	33	8/10/2004	8/12/2004	33
914	9/7/2004	9/24/2004	25	8/17/2004	9/3/2004	25	8/25/2004	9/14/2004	25
915	10/8/2004	10/19/2004	63	9/20/2004	9/29/2004	63	9/28/2004	10/7/2004	63
916	9/27/2004	9/30/2004	26	9/7/2004	9/10/2004	26	9/15/2004	9/20/2004	26
917	10/18/2004	11/10/2004	15	9/28/2004	10/21/2004	15	10/6/2004	10/29/2004	15
918	11/18/2004	11/23/2004	18	10/29/2004	11/3/2004	18	11/8/2004	11/11/2004	18
919	11/18/2004	12/7/2004	10	10/29/2004	11/15/2004	10	11/8/2004	11/23/2004	10
920	12/8/2004	12/21/2004	10	11/16/2004	12/1/2004	10	11/24/2004	12/9/2004	10
921	11/24/2004		55	11/4/2004	11/11/2004	55		11/19/2004	55
922	12/22/2004	1/6/2005	10	12/2/2004	12/15/2004	10	12/10/2004	12/23/2004	10
923	1/7/2005	1/18/2005	76	12/16/2004	12/28/2004	76		1/6/2005	76
924	1/7/2005	1/17/2005	39	12/16/2004	12/27/2004	39	12/27/2004	1/5/2005	39
925	1/7/2005	1/13/2005	41	12/16/2004	12/22/2004	41	12/27/2004	1/3/2005	41
926	1/7/2005	1/20/2005	10	12/16/2004	12/30/2004	10	12/27/2004	1/10/2005	10
927	1/21/2005	1/28/2005	10	1/3/2005	1/10/2005	10		1/18/2005	10
928	1/31/2005	2/15/2005	10	1/11/2005	1/26/2005	10		2/3/2005	10
929	2/16/2005	2/25/2005	10	1/27/2005	2/7/2005	10	2/4/2005	2/15/2005	10
930	12/6/2004	12/10/2004	55	11/12/2004	11/18/2004	55	11/22/2004	11/30/2004	55
931	12/13/2004	12/16/2004	55	11/19/2004	11/24/2004	55	12/1/2004	12/6/2004	55
932	12/17/2004		55	11/29/2004	12/2/2004	55		12/10/2004	55
933	2/28/2005	3/15/2005	10	2/8/2005	2/23/2005	10		3/3/2005	10
934	3/16/2005	3/17/2005	36	2/24/2005	2/25/2005	36		3/7/2005	36
935	3/16/2005	3/29/2005	19	2/24/2005	3/9/2005	19	3/4/2005	3/17/2005	19
936	1/21/2005		45	1/3/2005	1/5/2005	45			45
937	1/26/2005		65	1/6/2005	1/12/2005	65		1/20/2005	65
938	3/16/2005	3/21/2005	31	2/24/2005	3/1/2005	31	3/4/2005	3/9/2005	31
939	3/30/2005	4/6/2005	19	3/10/2005	3/17/2005	19	3/18/2005	3/25/2005	19
940	3/16/2005		10	2/24/2005	3/9/2005	10			
941	3/23/2005	4/5/2005	20	3/3/2005	3/16/2005	20	3/11/2005	3/24/2005	
942	3/30/2005		20	3/10/2005	3/16/2005	20			20
943	4/7/2005		19	3/18/2005	3/24/2005	19			
944	8/20/2004	5/18/2005	0	8/2/2004	4/28/2005	27			0
945	8/20/2004		37	8/2/2004	8/9/2004	37			37
946	9/29/2004		23	9/9/2004	9/24/2004	23		10/4/2004	23
947	10/4/2004		20	9/14/2004	9/29/2004	20		10/7/2004	20
948	11/10/2004		0	10/21/2004	11/5/2004	0			0
949	9/23/2004		43	9/2/2004	9/14/2004	43			43
950	10/8/2004	10/25/2004	28	9/20/2004	10/5/2004	28	9/28/2004	10/13/2004	28

Table B-1: Continued [pg. 20 of 20]

	As-Planned Schedule			20-Jun-03			June 24, 2003 (Rescheduled)			
ID	Start	Finish	TF	Start	Finish	TF	Start	Finish	TF	
951	10/15/2004	10/26/2004	23	9/27/2004	10/6/2004	23	10/5/2004	10/14/2004	23	
952	10/20/2004	10/29/2004	20	9/30/2004	10/11/2004	20	10/8/2004	10/19/2004	20	
953	11/22/2004	12/3/2004	0	11/2/2004	11/11/2004	0	11/10/2004	11/19/2004	0	
954	8/30/2004	9/8/2004	37	8/10/2004	8/18/2004	37	8/18/2004	8/26/2004	37	
955	9/27/2004	10/15/2004	25	9/7/2004	9/27/2004	25	9/15/2004	10/5/2004	25	
956	10/18/2004	10/29/2004	61	9/28/2004	10/11/2004	61	10/6/2004	10/19/2004	61	
957	10/18/2004	10/22/2004	25	9/28/2004	10/4/2004	25	10/6/2004	10/12/2004	25	
958	11/1/2004	11/5/2004	24	10/12/2004	10/18/2004	24	10/20/2004	10/26/2004	24	
959	12/6/2004	12/16/2004	6	11/12/2004	11/24/2004	6	11/22/2004	12/6/2004	6	
960	11/1/2004	11/24/2004	20	10/12/2004	11/4/2004	20	10/20/2004	11/12/2004	20	
961	12/6/2004	12/13/2004	9	11/12/2004	11/19/2004	9	11/22/2004	12/1/2004	9	
962	12/6/2004	12/27/2004	0	11/12/2004	12/6/2004	0	11/22/2004	12/14/2004	0	
963	12/28/2004	1/13/2005	23	12/7/2004	12/22/2004	23	12/15/2004	1/3/2005	23	
964	12/28/2004	1/11/2005	0	12/7/2004	12/20/2004	0		12/29/2004	0	
965	12/14/2004	12/23/2004	45	11/22/2004	12/3/2004	45		12/13/2004	45	
966	1/12/2005	1/25/2005	0	12/21/2004		0		1/13/2005	0	
967	1/26/2005	2/4/2005	0	1/6/2005	1/17/2005	0	1/14/2005	1/25/2005	0	
968	1/26/2005	2/4/2005	0	1/6/2005	1/17/2005	0		1/25/2005	0	
969	1/26/2005	2/2/2005	2	1/6/2005	1/13/2005	2	1/14/2005	1/21/2005	2	
970	1/26/2005	2/8/2005	3	1/6/2005	1/19/2005	3		1/27/2005	3	
971	1/26/2005	2/1/2005	3	1/6/2005	1/12/2005	3	1/14/2005	1/20/2005	3	
972	2/7/2005	2/22/2005	0	1/18/2005		0			0	
973	2/16/2005	3/1/2005	0	1/27/2005	2/9/2005	0			0	
974	3/2/2005	3/17/2005	0	2/10/2005	2/25/2005	0	2/18/2005	3/7/2005	0	
975	12/27/2004	1/3/2005	45	12/6/2004	12/10/2004	45	12/14/2004	12/20/2004	45	
976	1/4/2005	1/7/2005	45	12/13/2004	12/16/2004	45	12/21/2004	12/27/2004	45	
977	1/10/2005	1/13/2005	45	12/17/2004	12/22/2004	45	12/28/2004	1/3/2005	45	
978	3/18/2005	3/31/2005	0	2/28/2005	3/11/2005	0	3/8/2005	3/21/2005	0	
979	4/1/2005	4/4/2005	26	3/14/2005	3/15/2005	26			26	
980	4/1/2005	4/4/2005	0			0			0	
981	2/9/2005	2/11/2005	42	1/20/2005		42			42	
982	4/1/2005	4/5/2005	25	3/14/2005		25			25	
983	4/1/2005	4/7/2005	23	3/14/2005	3/18/2005	23	3/22/2005	3/28/2005	23	
984	4/5/2005	4/14/2005	0	3/16/2005	3/25/2005	0	3/24/2005	4/4/2005	0	
985	4/1/2005	4/14/2005	8	3/14/2005		8			8	
986	4/15/2005	4/26/2005	0	3/28/2005		0			0	
987	4/20/2005	5/3/2005	5	3/31/2005		5			5	
988	4/27/2005	5/2/2005	6	4/7/2005		6			6	
989	4/27/2005	5/10/2005	0	4/7/2005		0		4/28/2005	0	
990	4/5/2005	4/7/2005	23	3/16/2005		23		3/28/2005	23	
991	5/11/2005	5/17/2005	0	4/21/2005	4/27/2005	0		5/5/2005	0	
992	5/18/2005	5/18/2005	0			0		5/6/2005	0	
993	5/19/2005	5/19/2005	0	4/29/2005	4/29/2005	0	5/9/2005	5/9/2005	0	

Appendix C

ATF Database for June 2003

Table C-1: ATF database for the June 2003 Update

Ī	As Pla	anned Sch	edule		20-Jun-03		June 24,	2003 (Resc	heduled)
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR
1	0	0	0	0	0	0	0		
2	75	37.5	37.5	386			381		
3	273	136.5	136.5	259	142.5	116.5	215	142.5	72.5
4	273	136.5	136.5	259	142.5	116.5	215	142.5	72.5
5	87	43.5	43.5	26	49.5	-23.5	29	51	-22
6	87	43.5	43.5	26	49.5	-23.5	29	51	-22
7	200	100	100	186	106	80	142	106	36
8	200	100	100	186	106	80	142	106	36
9	103	51.5	51.5	89	57.5	31.5	45	57.5	-12.5
10	103	51.5	51.5	89	57.5	31.5	45	57.5	-12.5
11	202	101	101	188	107	81	144	107	37
12	202	101	101	188	107	81	144	107	37
13	75	37.5	37.5	0	0	0	0	0	0
14	75	37.5	37.5	23	43.5	-20.5	29	46.5	-17.5
15	130	65	65	116	71	45	72	71	1
16	130	65	65	116	71	45	72	71	1
17	225	112.5	112.5	211	118.5	92.5	167	118.5	48.5
18	225	112.5	112.5	211	118.5	92.5	167	118.5	48.5
19	144	72	72	130	78	52	86	78	8
20	144	72	72	130	78	52	86	78	8
21	97	48.5	48.5	36	54.5	-18.5	42	57.5	-15.5
22	97	48.5	48.5	36	54.5	-18.5	42	57.5	-15.5
23	430	215	215	416	221	195	372	221	151
24	430	215	215	416	221	195	372	221	151
25	81	40.5	40.5	0	0	0	0	0	0
26	81	40.5	40.5	27	46.5	-19.5	33	49.5	-16.5
27	200	100	100	186	106	80	142	106	36
28	200	100	100	186	106	80	142	106	36
29	96	48	48	0	0	0	0	0	0
30	96	48	48	48	54	-6	51	55.5	-4.5
31	180	90	90	166	96	70	122	96	26
32	180	90	90	166	96	70	122	96	26
33	272	136	136	258	142	116	214	142	72
34	272	136	136	258	142	116	214	142	72
35	459	229.5	229.5	445	235.5	209.5	401	235.5	165.5
36	459	229.5	229.5	445	235.5	209.5	401	235.5	165.5
37	295	147.5	147.5	281	153.5	127.5	237	153.5	83.5
38	295	147.5	147.5	281	153.5	127.5	237	153.5	83.5
39	411	205.5	205.5	397	211.5	185.5	353	211.5	141.5
40	411	205.5	205.5	397	211.5	185.5	353	211.5	141.5
41	292	146	146	278	152	126	234	152	82
42	292	146	146	278	152	126	234	152	82
43	369	184.5	184.5	355	190.5	164.5	311	190.5	120.5
44	369	184.5	184.5	355	190.5	164.5	311	190.5	120.5
45	450	225	225	436	231	205	392	231	161
46	450	225	225	436	231	205	392	231	161
47	243	121.5	121.5	229	127.5	101.5	185	127.5	57.5
48	243	121.5	121.5	229	127.5	101.5	185	127.5	57.5
49	144	72	72	130	78	52	86	78	8
50	426	213	213	412	219	193	368	219	149

Table C-1: Continued [pg. 2 of 20]

ſ	As Planned Schedule					June 24, 2003 (Rescheduled)			
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR
51	426	213	213	412	219	193	368	219	149
52	416	208	208	359	171	188	358	171	187
53	416	208	208	359	171	188	358	171	187
54	298	149	149	284	155	129	240	155	85
55	298	149	149	284	155	129	240	155	85
56	414	207	207	400	213	187	356	213	143
57	414	207	207	400	213	187	356	213	143
58	406	203	203	0	0	0	0	0	0
59	406	203	203	376	193	183	367	193	174
60	416	208	208	402	214	188	358	214	144
61	416	208	208	402	214	188	358	214	144
62	288	144	144	274	150	124	230	150	80
63	288	144	144	274	150	124	230	150	80
64	141	70.5	70.5	127	76.5	50.5	83	76.5	6.5
65	141	70.5	70.5	127	76.5	50.5	83	76.5	6.5
66	431	215.5	215.5	417	221.5	195.5	373	221.5	151.5
67	431	215.5	215.5	417	221.5	195.5	373	221.5	151.5
68	434	217	217	420	223	197	376	223	153
69	434	217	217	420	223	197	376	223	153
70	302	151	151	288	157	131	244	157	87
71	302	151	151	288	157	131	244	157	87
72	404	202	202	390	208	182	346	208	138
73	404	202	202	390	208	182	346	208	138
74	424	212	212	410	218	192	366	218	148
75	424	212	212	410	218	192	366	218	148
76	355	177.5	177.5	341	183.5	157.5	297	183.5	113.5
77	355	177.5	177.5	341	183.5	157.5	297	183.5	113.5
78	0			0			0		
79	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0
81	22	11	11	0	0	0	0	0	0
82	22	11	11	0	13	-13	0	13	-13
83	287	143.5	143.5	0	0	0	0	0	0
84	287	143.5	143.5	0	0	0	0	0	0
85	8			0	4	-4	0	4	-4
86	26	13	13	0	0	0	0	0	0
87	8	4	4	0	0	0	0	0	0
88	22	11	11	0	0	0	0	0	0
89	0			435			428		
90	0	0	0	500	256.5	243.5	467	256.5	210.5
91	0	0	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0	0	0
93	0	0	0	-12	0	-12	207	109.5	97.5
94	241	120.5	120.5	220	122.5	97.5	213	122.5	90.5
95	241	120.5	120.5	220	122.5	97.5	213	122.5	90.5
96	241	120.5	120.5	220	122.5	97.5	213	122.5	90.5
97	241	120.5	120.5	220	122.5	97.5	213	122.5	90.5
98	241	120.5	120.5	220	122.5	97.5	213	122.5	90.5
99	242	121	121	221	123	98	214	123	91
100	242	121	121	221	123	98	214	123	91

Table C-1: Continued [pg. 3 of 20]

	As Pla	anned Sch	edule		20-Jun-03		June 24,	2003 (Resc	heduled)
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR
101	242	121	121	221	123	98	214	123	91
102	0	0	0	-12	0	-12	207	109.5	97.5
103	242	121	121	221	123	98	214	123	91
104	273			252			245		
105	273	136.5	136.5	252	138.5	113.5	245	138.5	106.5
106	273	136.5	136.5	252	138.5	113.5	245	138.5	106.5
107	273	136.5	136.5	252	138.5	113.5	245	138.5	106.5
108	273	136.5	136.5	252	138.5	113.5	245	138.5	106.5
109	273	136.5	136.5	252	138.5	113.5	245	138.5	106.5
110	273	136.5	136.5	252	138.5	113.5	245	138.5	106.5
111	273	136.5	136.5	252	138.5	113.5	245	138.5	106.5
112	276	138	138	255	140	115	248	140	108
113	0			226			219		
114	0	0	0	226	113	113	219	113	106
115	0	0	0	226	113	113	219	113	106
116	0	0	0	226	113	113	219	113	106
117	235			220			213		
118	235	117.5	117.5	226	119.5	106.5	219	119.5	99.5
119	235	117.5	117.5	226	119.5	106.5	219	119.5	99.5
120	235	117.5	117.5	220	119.5	100.5	213	119.5	93.5
121	242			233			226		
122	373	186.5	186.5	364	188.5	175.5	357	188.5	168.5
123	235	117.5	117.5	220	119.5	100.5	213	119.5	93.5
124	235	117.5	117.5	220	119.5	100.5	213	119.5	93.5
125	235	117.5	117.5	220	119.5	100.5	213	119.5	93.5
126	235	117.5	117.5	220	119.5	100.5	213	119.5	93.5
127	235	117.5	117.5	220	119.5	100.5	213	119.5	93.5
128	266	133	133	251	135	116	244	135	109
129	251	125.5	125.5	236	127.5	108.5	229	127.5	101.5
130	251	125.5	125.5	236	127.5	108.5	229	127.5	101.5
131	251	125.5	125.5	236	127.5	108.5	229	127.5	101.5
132	235	117.5	117.5	220	119.5	100.5	213	119.5	93.5
133	235	117.5	117.5	220	119.5	100.5	213	119.5	93.5
134	235	117.5	117.5	220	119.5	100.5	213	119.5	93.5
135	381	190.5	190.5	366	192.5	173.5	359	192.5	166.5
136		117.5	117.5	220	119.5	100.5	213	119.5	93.5
137	235	117.5	117.5	220	119.5	100.5	213	119.5	93.5
138	235	117.5	117.5	220	119.5	100.5	213	119.5	93.5
139	235	117.5	117.5	220	119.5	100.5	213	119.5	93.5
140	121	400	400	121	400	140	121	100	140
141	272	136	136	257	138	119	250	138	112
142	272	136	136	257	138	119	250	138	112
143	272	136	136	257	138	119	250	138	112
144	272	136	136	257	138	119	250	138	112
145	272	136	136	257 72	138	119	250 72	138	112
146 147	72 235	36	36	72	36	36	72	36	36
		117.5	117.5	220 220	110.5	100.5	213 213	110.5	02.5
148 149	235	117.5	117.5		119.5			119.5	93.5
150	235 235	117.5 117.5	117.5 117.5	220 220	119.5 119.5	100.5	213 213	119.5 119.5	93.5 93.5
150	233	117.5	0.111	220	119.5	100.5	213	119.0	93.3

Table C-1: Continued [pg. 4 of 20]

ſ	As Planned Schedule		edule		20-Jun-03		June 24, 2003 (Rescheduled)			
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	
151	235	117.5	117.5	220	119.5	100.5	213	119.5	93.5	
152	235	117.5	117.5	220	119.5	100.5	213	119.5	93.5	
153	124			124			124			
154	124	62	62	124	62	62	124	62	62	
155	124	62	62	124	62	62	124	62	62	
156	124	62	62	124	62	62	124	62	62	
157	124	62	62	124	62	62	124	62	62	
158	124	62	62	124	62	62	124	62	62	
159	124	62	62	124	62	62	124	62	62	
160	124	62	62	124	62	62	124	62	62	
161	124	62	62	124	62	62	124	62	62	
162	57			57			57			
163	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5	
164	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5	
165	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5	
166	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5	
167	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5	
168	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5	
169	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5	
170	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5	
171	100	50	50	100	50	50	100	50	50	
172	188			188			188			
173	188	94	94	188	94	94	188	94	94	
174	188	94	94	188	94	94	188	94	94	
175	188	94	94	188	94	94	188	94	94	
176	188	94	94	188	94	94	188	94	94	
177	188	94	94	188	94	94	188	94	94	
178	188	94	94	188	94	94	188	94	94	
179	135			135			135			
180	135	67.5	67.5	135	67.5	67.5	135	67.5	67.5	
181	135	67.5	67.5	135	67.5	67.5	135	67.5	67.5	
182	135	67.5	67.5	135	67.5	67.5	135	67.5	67.5	
183	135	67.5	67.5	135	67.5	67.5	135	67.5	67.5	
184	135	67.5	67.5	135	67.5	67.5	135	67.5	67.5	
185	135	67.5	67.5	135	67.5	67.5	135	67.5	67.5	
186	135	67.5	67.5	135	67.5	67.5	135	67.5	67.5	
187	135	67.5	67.5	135	67.5	67.5	135	67.5	67.5	
188	135	67.5	67.5	135	67.5	67.5	135	67.5	67.5	
189	40			40			40			
190	40	20	20	40	20	20	40	20	20	
191	40	20	20	40	20	20	40	20	20	
192	40	20	20	40	20	20	40	20	20	
193	40	20	20	40	20	20	40	20	20	
194	40	20	20	40	20	20	40	20	20	
195	40	20	20	40	20	20	40	20	20	
196	40	20	20	40	20	20	40	20	20	
197	40	20	20	40	20	20	40	20	20	
198	40	25 =	0.5 =	40	25 =	0.5 =	40	05 =	0.6 =	
199	65	32.5	32.5	65	32.5	32.5	65	32.5	32.5	
200	55	27.5	27.5	55	27.5	27.5	55	27.5	27.5	
201	40	20	20	40	20	20	40	20	20	

Table C-1: Continued [pg. 5 of 20]

	As Pla	anned Sch	edule		20-Jun-03		June 24,	2003 (Resc	heduled)
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR
202	57			57			57		
203	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5
204	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5
205	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5
206	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5
207	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5
208	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5
209	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5
210	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5
211	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5
212	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5
213	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5
214	111	55.5	55.5	111	55.5	55.5	111	55.5	55.5
215	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5
216	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5
217	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5
218	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5
219	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5
220	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5
221	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5
222	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5
223	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5
224	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5
225	78	39	39	78	39	39	78	39	39
226	76	38	38	76	38	38	76	38	38
227	76	38	38	76	38	38	76	38	38
228	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5
229	71			71			71		
230	71	35.5	35.5	71	35.5	35.5	71	35.5	35.5
231	71	35.5	35.5	71	35.5	35.5	71	35.5	35.5
232	71	35.5	35.5	71	35.5	35.5	71	35.5	35.5
233	71	35.5	35.5	71	35.5	35.5	71	35.5	35.5
234	71	35.5	35.5	71	35.5	35.5	71	35.5	35.5
235	71	35.5	35.5	71	35.5	35.5	71	35.5	35.5
236	0			0			0		
237	0	0	0	0	0	0	0	0	0
238	0	0	0	0	0	0	0	0	0
239	0	0	0	0	0	0	0	0	0
240	8	4	4	8	4	4	8	4	4
241	0	0	0	0	0	0	0	0	0
242	0	0	0	0	0	0	0	0	0
243	0	0	0	0	0	0	0	0	0
244	1	0.5	0.5	1	0.5	0.5	1	0.5	0.5
245	0	0	0	0	0	0	0	0	0
246	0	0	0	0	0	0	0	0	0
247	0	0	0	0	0	0	0	0	0
248	0	0	0	0	0	0	0	0	0
249	0	0	0	0	0	0	0	0	0
250	0	0	0	0	0	0	0	0	0

Table C-1: Continued [pg. 6 of 20]

Ī	As Pla	anned Sch	edule		20-Jun-03		June 24,	2003 (Resc	heduled)
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR
251	0	0	0	0	0	0	0	0	0
252	1	0.5	0.5	1	0.5	0.5	1	0.5	0.5
253	0	0	0	0	0	0	0	0	0
254	6			6			6		
255	37	18.5	18.5	41	20.5	20.5	40	20.5	19.5
256	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
257	19	9.5	9.5	19	9.5	9.5	19	9.5	9.5
258	8	4	4	8	4	4	8	4	4
259	19	9.5	9.5	19	9.5	9.5	19	9.5	9.5
260	8	4	4	8	4	4	8	4	4
261	8	4	4	8	4	4	8	4	4
262	24	12	12	24	12	12	24	12	12
263	8	4	4	8	4	4	8	4	4
264	6	3	3	6	3	3	6	3	3
265	6	3	3	6	3	3	6	3	3
266	6	3	3	6	3	3	6	3	3
267	6	3	3	6	3	3	6	3	3
268	6	3	3	6	3	3	6	3	3
269	9	4.5	4.5	9	4.5	4.5	9	4.5	4.5
270	6	3	3	6	3	3	6	3	3
271	6	3	3	6	3	3	6	3	3
272	0	0	0	0	0		0	0	0
273	0	0	0	0	0	0	0	0	0
274 275	0	0	0	0	0	0	0	0	0
276	3	1.5	1.5	3	1.5	1.5	3	1.5	1.5
277	3	1.5	1.5	3	1.5	1.5	3	1.5	1.5
278	6	1.5	1.0	6	1.5	1.0	6	1.5	1.5
279	6	3	3	6	3	3	6	3	3
280	6	3	3	6	3	3	6	3	3
281	6	3	3	6	3	3	6	3	3
282	9	4.5	4.5	9	4.5	4.5	9	4.5	4.5
283	9	4.5	4.5	9	4.5	4.5	9	4.5	4.5
284	0			0			0		
285	0	0	0	0	0	0	0	0	0
286	0	0	0	0	0	0	0	0	0
287	0	0	0	0	0	0	0	0	0
288	3	1.5	1.5	3	1.5	1.5	3	1.5	1.5
289	3	1.5	1.5	3	1.5	1.5	3	1.5	1.5
290	5			5			5		
291	5	2.5	2.5	5	2.5	2.5	5	2.5	2.5
292	5	2.5	2.5	5	2.5	2.5	5	2.5	2.5
293	5	2.5	2.5	5	2.5	2.5	5	2.5	2.5
294	8	4	4	8	4	4	8	4	4
295	8	4	4	8	4	4	8	4	4
296	0			0			0		
297	0	0	0	0	0	0	0	0	0
298	3	1.5	1.5	3	1.5	1.5	3	1.5	1.5
299	3	1.5	1.5	3	1.5	1.5	3	1.5	1.5
300	3	1.5	1.5	3	1.5	1.5	3	1.5	1.5
301	3	1.5	1.5	3	1.5	1.5	3	1.5	1.5

Table C-1: Continued [pg. 7 of 20]

	As Pla	anned Sch	edule		20-Jun-03		June 24, 2003 (Rescheduled)			
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	
302	0			0			0			
303	0	0	0	0	0	0	0	0	0	
304	0	0	0	0	0	0	0	0	0	
305	0	0	0	0	0	0	0	0	0	
306	3	1.5	1.5	3	1.5	1.5	3	1.5	1.5	
307	3	1.5	1.5	3	1.5	1.5	3	1.5	1.5	
308	25	12.5	12.5	25	12.5	12.5	25	12.5	12.5	
309	0			0			0			
310	0	0	0	0	0	0	0	0	0	
311	0	0	0	0	0	0	0	0	0	
312	0	0	0	0	0	0	0	0	0	
313	0	0	0	0	0	0	0	0	0	
314	0			0			0			
315	0	0	0	0	0	0	0	0	0	
316	0	0	0	0	0	0	0	0	0	
317	5	2.5	2.5	5	2.5	2.5	5	2.5	2.5	
318	5	2.5	2.5	5	2.5	2.5	5	2.5	2.5	
319	250	125	125	250	125	125	250	125	125	
320	240	120	120	240	120	120	240	120	120	
321	25			25			25			
322	25	12.5	12.5	25	12.5	12.5	25	12.5	12.5	
323	25	12.5	12.5	25	12.5	12.5	25	12.5	12.5	
324	0	0	0	0	0	0	0	0	0	
325	0	0	0	0	0	0	0	0	0	
326	0	0	0	0	0	0	0	0	0	
327	240	120	120	240	120	120	240	120	120	
328	240	120	120	240	120	120	240	120	120	
329	40	0	0	40		0	40	0	0	
330	40	20	20	40	20	20	40	20	20	
331	46	23	23	46	23	23	46	23	23	
332	40	20	20	40	20	20	40	20	20	
333	40	20	20	40	20	20	40	20	20	
334	134	67	67	134	67	67	134	67	67	
335	103	51.5	51.5	103	51.5	51.5	103	51.5	51.5	
336	93	46.5	46.5	93	46.5	46.5	93	46.5	46.5	
337	100	50	50	100	50	50	100	50	50	
338	72	36	36	72	36	36	72	36	36	
339	72	36	36	72	36	36	72	36	36	
340	72	36	36	72	36	36	72	36	36	
341	72	36	36	72	36	36	72	36	36	
342	72	36	36	72	36	36	72	36	36	
343	45			45			45			
344	45	22.5	22.5	45	22.5	22.5	45	22.5	22.5	
345	46	23	23	46	23	23	46	23	23	
346	40	20	20	40	20	20	40	20	20	
347	40	20	20	40	20	20	40	20	20	
348	256	128	128	256	128	128	256	128	128	
349	251	125.5	125.5	251	125.5	125.5	251	125.5	125.5	
350	235	117.5	117.5	235	117.5	117.5	235	117.5	117.5	
000	200	1.1.0		200			-50	117.0		

Table C-1: Continued [pg. 8 of 20]

ſ	As Planned Schedule				20-Jun-03		June 24, 2003 (Rescheduled)			
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	
351	244	122	122	244	122	122	244	122	122	
352	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5	
353	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5	
354	57	28.5	28.5	57	28.5	28.5	57	28.5	28.5	
355	195	97.5	97.5	195	97.5	97.5	195	97.5	97.5	
356	194	97	97	194	97	97	194	97	97	
357	0	_		0			0			
358	0	0	0	0	0	0	0	0	0	
359	0	0	0	0	0	0	0	0	0	
360	113	56.5	56.5	113	56.5	56.5	113	56.5	56.5	
361	113	56.5	56.5	113	56.5	56.5	113	56.5	56.5	
362	113	56.5	56.5	113	56.5	56.5	113	56.5	56.5	
363	0	0	0	0	0	0	0	0	0	
364	0	0	0	0	0	0	0	0	0	
365	68	34	34	68	34	34	68	34	34	
366	68	34	34	68	34	34	68	34	34	
367	0	0	0	0	0	0	0	0	0	
368	83	41.5	41.5	83	41.5	41.5	83	41.5	41.5	
369	82	41	41	82	41	41	82	41	41	
370	68	34	34	68	34	34	68	34	34	
371	68	34	34	68	34	34	68	34	34	
372	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5	
373	80	40	40	80	40	40	80	40	40	
374	80	40	40	80	40	40	80	40	40	
375	80	40	40	80	40	40	80	40	40	
376	176	88	88	176	88	88	176	88	88	
377	68	34	34	68	34	34	68	34	34	
378	72	36	36	72	36	36	72	36	36	
379	68	34	34	68	34	34	68	34	34	
380	68	34	34	68	34	34	68	34	34	
381	68	34	34	68	34	34	68	34	34	
382	72	36	36	72	36	36	72	36	36	
383	68	34	34	68	34	34	68	34	34	
384	68	34	34	68	34	34	68	34	34	
385	171	85.5	85.5	171	85.5	85.5	171	85.5	85.5	
386	176	88	88	176	88	88	176	88	88	
387	148	74	74	148	74	74	148	74	74	
388	148	74	74	148	74	74	148	74	74	
389	148	74	74	148	74	74	148	74	74	
390	69	34.5	34.5	69	34.5	34.5	69	34.5	34.5	
391	72	36	36	72	36	36	72	36	36	
392	148	74	74	148	74	74	148	74	74	
393	72	36	36	72	36	36	72	36	36	
394	159	79.5	79.5	159	79.5	79.5	159	79.5	79.5	
395	163	81.5	81.5	163	81.5	81.5	163	81.5	81.5	
396	156	78	78	156	78	78	156	78	78	
397	72	36	36	72	36	36	72	36	36	
398	68	34	34	68	34	34	68	34	34	
399	68	34	34	68	34	34	68	34	34	
400	136	68	68	136	68	68	136	68	68	

Table C-1: Continued [pg. 9 of 20]

J	As Planned Schedule				20-Jun-03		June 24, 2003 (Rescheduled)			
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	
401	68	34	34	68	34	34	68	34	34	
402	135	67.5	67.5	135	67.5	67.5	135	67.5	67.5	
403	139	69.5	69.5	139	69.5	69.5	139	69.5	69.5	
404	135	67.5	67.5	135	67.5	67.5	135	67.5	67.5	
405	7	01.0	01.0	7	07.0	01.0	7	01.0	01.0	
406	7	3.5	3.5	7	3.5	3.5	7	3.5	3.5	
407	7	3.5	3.5	7	3.5	3.5	7	3.5	3.5	
408	7	3.5	3.5	7	3.5	3.5	7	3.5	3.5	
409	7	3.5	3.5	7	3.5	3.5	7	3.5	3.5	
410	79	39.5	39.5	79	39.5	39.5	79	39.5	39.5	
411	79	39.5	39.5	79	39.5	39.5	79	39.5	39.5	
412	0	0	0	0	0	0	0	0	0	
413	90	45	45	90	45	45	90	45	45	
414	89	44.5	44.5	89	44.5	44.5	89	44.5	44.5	
415	79	39.5	39.5	79	39.5	39.5	79	39.5	39.5	
416	79	39.5	39.5	79	39.5	39.5	79	39.5	39.5	
417	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5	
418	84	42	42	84	42	42	84	42	42	
419	84	42	42	84	42	42	84	42	42	
420	84	42	42	84	42	42	84	42	42	
421	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5	
422	178	89	89	178	89	89	178	89	89	
423	81	40.5	40.5	81	40.5	40.5	81	40.5	40.5	
424	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5	
425	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5	
426	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5	
427	81	40.5	40.5	81	40.5	40.5	81	40.5	40.5	
428	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5	
429	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5	
430	175	87.5	87.5	175	87.5	87.5	175	87.5	87.5	
431	178	89	89	178	89	89	178	89	89	
432	152	76	76	152	76	76	152	76	76	
433	152	76	76	152	76	76	152	76	76	
434	152	76	76	152	76	76	152	76	76	
435	78	39	39	78	39	39	78	39	39	
436	81	40.5	40.5	81	40.5	40.5	81	40.5	40.5	
437	152	76	76	152	76	76	152	76	76	
438	78	39	39	78	39	39	78	39	39	
439	163	81.5	81.5	163	81.5	81.5	163	81.5	81.5	
440	167	83.5	83.5	167	83.5	83.5	167	83.5	83.5	
441	160	80	80	160	80	80	160	80	80	
442	81	40.5	40.5	81	40.5	40.5	81	40.5	40.5	
443	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5	
444	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5	
445	136	68	68	136	68	68	136	68	68	
446	68	34	34	68	34	34	68	34	34	
447	130	65	65	130	65	65	130	65	65	
448	134	67	67	134	67	67	134	67	67	
449	130	65	65	130	65	65	130	65	65	
773	130	00	55	100		00	100	00	00	

Table C-1: Continued [pg. 10 of 20]

	As Pla	anned Sch	edule		20-Jun-03		June 24,	2003 (Resc	heduled)
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR
450	10			10			10		
451	10	5	5	10	5	5	10	5	5
452	10	5	5	10	5	5	10	5	5
453	10	5	5	10	5	5	10	5	5
454	10	5	5	10	5	5	10	5	5
455	75	37.5	37.5	75	37.5	37.5	75	37.5	37.5
456	75	37.5	37.5	75	37.5	37.5	75	37.5	37.5
457	0	0	0	0	0	0	0	0	0
458	91	45.5	45.5	91	45.5	45.5	91	45.5	45.5
459	84	42	42	84	42	42	84	42	42
460	75	37.5	37.5	75	37.5	37.5	75	37.5	37.5
461	75	37.5	37.5	75	37.5	37.5	75	37.5	37.5
462	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5
463	90	45	45	90	45	45	90	45	45
464	90	45	45	90	45	45	90	45	45
465	90	45	45	90	45	45	90	45	45
466	171	85.5	85.5	171	85.5	85.5	171	85.5	85.5
467	75	37.5	37.5	75	37.5	37.5	75	37.5	37.5
468	79	39.5	39.5	79	39.5	39.5	79	39.5	39.5
469	75	37.5	37.5	75	37.5	37.5	75	37.5	37.5
470	75	37.5	37.5	75	37.5	37.5	75	37.5	37.5
471	75	37.5	37.5	75	37.5	37.5	75	37.5	37.5
472	79	39.5	39.5	79	39.5	39.5	79	39.5	39.5
473	75	37.5	37.5	75	37.5	37.5	75	37.5	37.5
474	75	37.5	37.5	75	37.5	37.5	75	37.5	37.5
475	168	84	84	168	84	84	168	84	84
476	171	85.5	85.5	171	85.5	85.5	171	85.5	85.5
477	145	72.5	72.5	145	72.5	72.5	145	72.5	72.5
478	145	72.5	72.5	145	72.5	72.5	145	72.5	72.5
479	145	72.5	72.5	145	72.5	72.5	145	72.5	72.5
480	76	38	38	76	38	38	76	38	38
481	79	39.5	39.5	79	39.5	39.5	79	39.5	39.5
482	145	72.5	72.5	145	72.5	72.5	145	72.5	72.5
483	76	38	38	76	38	38	76	38	38
484	156	78	78	156	78	78	156	78	78
485	160	80	80	160	80	80	160	80	80
486	153	76.5	76.5	153	76.5	76.5	153	76.5	76.5
487	79	39.5	39.5	79	39.5	39.5	79	39.5	39.5
488	75	37.5	37.5	75	37.5	37.5	75	37.5	37.5
489	75	37.5	37.5	75	37.5	37.5	75	37.5	37.5
490	127	63.5	63.5	127	63.5	63.5	127	63.5	63.5
491	68	34	34	68	34	34	68	34	34
492	125	62.5	62.5	125	62.5	62.5	125	62.5	62.5
493	129	64.5	64.5	129	64.5	64.5	129	64.5	64.5
494	125	62.5	62.5	125	62.5	62.5	125	62.5	62.5
495	16			16			16		
496	16	8	8	16	8	8	16	8	8
497	16	8	8	16	8	8	16	8	8
498	16	8	8	16	8	8	16	8	8
499	14	7	7	14	7	7	14	7	7
500	86	43	43	86	43	43	86	43	43

Table C-1: Continued [pg. 11 of 20]

ſ	As Planned Schedule				20-Jun-03		June 24, 2003 (Rescheduled)			
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	
501	86	43	43	86	43	43	86	43	43	
502	0	0	0	0	0	0	0	0	0	
503	91	45.5	45.5	91	45.5	45.5	91	45.5	45.5	
504	84	42	42	84	42	42	84	42	42	
505	86	43	43	86	43	43	86	43	43	
506	86	43	43	86	43	43	86	43	43	
507	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5	
508	168	84	84	168	84	84	168	84	84	
509	168	84	84	168	84	84	168	84	84	
510	168	84	84	168	84	84	168	84	84	
511	96	48	48	96	48	48	96	48	48	
512	108	54	54	108	54	54	108	54	54	
513	108	54	54	108	54	54	108	54	54	
514	134	67	67	134	67	67	134	67	67	
515	96	48	48	96	48	48	96	48	48	
516	96	48	48	96	48	48	96	48	48	
517	96	48	48	96	48	48	96	48	48	
518	96	48	48	96	48	48	96	48	48	
519	96	48	48	96	48	48	96	48	48	
520	96	48	48	96	48	48	96	48	48	
521	96	48	48	96	48	48	96	48	48	
522	96	48	48	96	48	48	96	48	48	
523	96	48	48	96	48	48	96	48	48	
524	96	48	48	96	48	48	96	48	48	
525	68	34	34	68	34	34	68	34	34	
526	96	48	48	96	48	48	96	48	48	
527	96	48	48	96	48	48	96	48	48	
528	96	48	48	96	48	48	96	48	48	
529	157	78.5	78.5	157	78.5	78.5	157	78.5	78.5	
530	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5	
531	81	40.5	40.5	81	40.5	40.5	81	40.5	40.5	
532	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5	
533	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5	
534	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5	
535	81	40.5	40.5	81	40.5	40.5	81	40.5	40.5	
536	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5	
537	77 149	38.5	38.5	77 149	38.5	38.5	77 140	38.5	38.5	
538 539	148	74 79.5	74 79.5	148	74 79.5	74 79.5	148	74 79.5	74 79.5	
	157 157	78.5	78.5	157	78.5	78.5	157 157	78.5	78.5	
540 541	157 157	78.5 78.5	78.5 78.5	157 157	78.5 78.5	78.5	157 157	78.5 78.5	78.5	
542	148	76.5	76.5	148	76.5	78.5 74	148	76.5	78.5 74	
543	78	39	39	78	39	39		39	39	
544	81	40.5	40.5	81	40.5	40.5	78 81	40.5	40.5	
545	148	74	74	148	74	74	148	74	74	
546	78	39	39	78	39	39	78	39	39	
547	152	76	76	152	76	76	152	76	76	
548	155	77.5	77.5	155	77.5	77.5	155	77.5	77.5	
549	148	74	74	148	74	74	148	74	74	
550	81	40.5	40.5	81	40.5	40.5	81	40.5	40.5	
550	O I	∓ 0.0	∓ 0.0	J 1	- 0.0	¬∪.∪	J 1	∓ 0.0	- 0.0	

Table C-1: Continued [pg. 12 of 20]

ſ	As Pla	anned Sch	edule		20-Jun-03		June 24,	2003 (Resc	heduled)
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR
551	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5
552	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5
553	120	60	60	120	60	60	120	60	60
554	68	34	34	68	34	34	68	34	34
555	118	59	59	118	59	59	118	59	59
556	122	61	61	122	61	61	122	61	61
557	118	59	59	118	59	59	118	59	59
558	35			35			35		
559	41	20.5	20.5	45	22.5	22.5	44	22.5	21.5
560	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
561	41	20.5	20.5	45	22.5	22.5	44	22.5	21.5
562	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
563	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
564	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
565	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
566	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
567	35	17.5	17.5	35	17.5	17.5	35	17.5	17.5
568	35	17.5	17.5	35	17.5	17.5	35	17.5	17.5
569	35	17.5	17.5	35	17.5	17.5	35	17.5	17.5
570	35	17.5	17.5	35	17.5	17.5	35	17.5	17.5
571	35	17.5	17.5	35	17.5	17.5	35	17.5	17.5
572	35	17.5	17.5	35	17.5	17.5	35	17.5	17.5
573	35	17.5	17.5	35	17.5	17.5	35	17.5	17.5
<u>574</u>	15			15			15		
575	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
576	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
577	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
578	44	22	22	44	22	22	44	22	22
579	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
580	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
581	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
582	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
583	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
584	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
585	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
586 597	15 15	7 5	7.5	15	7.5	7.5	15 15	7.5	7 5
587	15	7.5	7.5	15	7.5	7.5	15 15	7.5	7.5
588 580	15	7.5 14	7.5	15 28	7.5	7.5	15 28	7.5	7.5
589 500	28	14	14	28	14	14		14	14
590 591	28 15	7.5	14 7.5	15	14 7.5	14 7.5	28 15	14 7.5	14 7.5
591	18	9	9	18	9	9	18	9	9
592	18	9	9	18	9	9	18	9	9
593	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
595	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
596	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
597	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
598	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
599	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
600	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
500	10	7.5	1.5	10	7.5	1.5	10	7.5	1.5

Table C-1: Continued [pg. 13 of 20]

Γ	As Pla	anned Sch	edule		20-Jun-03		June 24,	2003 (Resc	heduled)
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR
601	35			35			35		
602	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
603	29	14.5	14.5	29	14.5	14.5	29	14.5	14.5
604	98	49	49	98	49	49	98	49	49
605	98	49	49	98	49	49	98	49	49
606	98	49	49	98	49	49	98	49	49
607	37	18.5	18.5	37	18.5	18.5	37	18.5	18.5
608	29			29			29		
609	29	14.5	14.5	29	14.5	14.5	29	14.5	14.5
610	29	14.5	14.5	29	14.5	14.5	29	14.5	14.5
611	29	14.5	14.5	29	14.5	14.5	29	14.5	14.5
612	29	14.5	14.5	29	14.5	14.5	29	14.5	14.5
613	220	110	110	220	110	110	220	110	110
614	220	110	110	220	110	110	220	110	110
615	220	110	110	220	110	110	220	110	110
616	15			15			15		
617	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
618	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
619	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
620	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
621	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
622	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
623	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
624	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
625	56	28	28	56	28	28	56	28	28
626	63	31.5	31.5	63	31.5	31.5	63	31.5	31.5
627	76	38	38	76	38	38	76	38	38
628	72	36	36	72	36	36	72	36	36
629	40	20	20	40	20	20	40	20	20
630	40	20	20	40	20	20	40	20	20
631	40	20	20	40	20	20	40	20	20
632	40	20	20	40	20	20	40	20	20
633	147	73.5	73.5	147	73.5	73.5	147	73.5	73.5
634	160	80	80	160	80	80	160	80	80
635	158	79	79	158	79	79	158	79	79
636	160	80	80	160	80	80	160	80	80
637	178	89	89	178	89	89	178	89	89
638	147	73.5	73.5	147	73.5	73.5	147	73.5	73.5
639	147	73.5	73.5	147	73.5	73.5	147	73.5	73.5
640	34	4.4 =	4.4	34	4.4 =	44 =	34	4.6.=	4.5
641	29	14.5	14.5	29	14.5	14.5	29	14.5	14.5
642	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
643	108	54	54	108	54	54	108	54	54
644	108	54	54	108	54	54	108	54	54
645	31	15.5	15.5	31	15.5	15.5	31	15.5	15.5
646	31	15.5	15.5	31	15.5	15.5	31	15.5	15.5
647	18	9	9	18	9	9	18	9	9
648	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
649	0	0	0	0	0	0	0	0	0
650	43	21.5	21.5	43	21.5	21.5	43	21.5	21.5

Table C-1: Continued [pg. 14 of 20]

	As Planned Schedule				20-Jun-03		June 24, 2003 (Rescheduled)			
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	
651	28	14	14	28	14	14	28	14	14	
652	28	14	14	28	14	14	28	14	14	
653	25	12.5	12.5	25	12.5	12.5	25	12.5	12.5	
654	18	9	9	18	9	9	18	9	9	
655	33	16.5	16.5	33	16.5	16.5	33	16.5	16.5	
656	132	66	66	132	66	66	132	66	66	
657	132	66	66	132	66	66	132	66	66	
658	132	66	66	132	66	66	132	66	66	
659	132	66	66	132	66	66	132	66	66	
660	28	14	14	28	14	14	28	14	14	
661	41	20.5	20.5	41	20.5	20.5	41	20.5	20.5	
662	28	14	14	28	14	14	28	14	14	
663	59	29.5	29.5	59	29.5	29.5	59	29.5	29.5	
664	41	20.5	20.5	41	20.5	20.5	41	20.5	20.5	
665	18	9	9	18	9	9	18	9	9	
666	18	9	9	18	9	9	18	9	9	
667	114	57	57	114	57	57	114	57	57	
668	114	57	57	114	57	57	114	57	57	
669	18	9	9	18	9	9	18	9	9	
670	66	33	33	66	33	33	66	33	33	
671	41	20.5	20.5	41	20.5	20.5	41	20.5	20.5	
672	41	20.5	20.5	41	20.5	20.5	41	20.5	20.5	
673	41	20.5	20.5	41	20.5	20.5	41	20.5	20.5	
674	18	9	9	18	9	9	18	9	9	
675	18	9	9	18	9	9	18	9	9	
676	18	9	9	18	9	9	18	9	9	
677	70	35	35	70	35	35	70	35	35	
678	18	9	9	18	9	9	18	9	9	
679	64	32	32	64	32	32	64	32	32	
680	18	9	9	18	9	9	18	9	9	
681	47	23.5	23.5	47	23.5	23.5	47	23.5	23.5	
682	72	36	36	72	36	36	72	36	36	
683	18	9	9	18	9	9	18	9	9	
684	61	30.5	30.5	61	30.5	30.5	61	30.5	30.5	
685	72	36	36	72	36	36	72	36	36	
686	34	17	17	34	17	17	34	17	17	
687	18	9	9	18	9	9	18	9	9	
688	71	35.5	35.5	71	35.5	35.5	71	35.5	35.5	
689	34	17	17	34	17	17	34	17	17	
690	65	32.5	32.5	65	32.5	32.5	65	32.5	32.5	
691	34	17	17	34	17	17	34	17	17	
692	16	10	10	16	10	10	16	10	10	
693	32	16	16	32	16	16	32	16	16	
694	20	10	10	20	10	10	20	10	10	
695	46	23	23	46	23	23	46	23	23	
696	148	74	74	148	74	74	148	74	74	
697	46	23	23	46	23	23	46	23	23	
698	31	15.5	15.5	31	15.5	15.5	31	15.5	15.5	
699	18	9 7.5	9 7.5	18	9 7.5	9	18	9 7.5	9 7.5	
700	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5	

Table C-1: Continued [pg. 15 of 20]

	As Pla	anned Sch	Schedule 20-Jun-03			June 24, 2003 (Rescheduled)				
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	
701	0	0	0	0	0	0	0	0	0	
702	43	21.5	21.5	43	21.5	21.5	43	21.5	21.5	
703	28	14	14	28	14	14	28	14	14	
704	28	14	14	28	14	14	28	14	14	
705	25	12.5	12.5	25	12.5	12.5	25	12.5	12.5	
706	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5	
707	46	23	23	46	23	23	46	23	23	
708	72	36	36	72	36	36	72	36	36	
709	25	12.5	12.5	25	12.5	12.5	25	12.5	12.5	
710	16	8	8	16	8	8	16	8	8	
711	16	8	8	16	8	8	16	8	8	
712	16	8	8	16	8	8	16	8	8	
713	148	74	74	148	74	74	148	74	74	
714	123	61.5	61.5	123	61.5	61.5	123	61.5	61.5	
715	123	61.5	61.5	123	61.5	61.5	123	61.5	61.5	
716	65	32.5	32.5	65	32.5	32.5	65	32.5	32.5	
717	16	8	8	16	8	8	16	8	8	
718	83	41.5	41.5	83	41.5	41.5	83	41.5	41.5	
719	83	41.5	41.5	83	41.5	41.5	83	41.5	41.5	
720	16	8	8	16	8	8	16	8	8	
721	61	30.5	30.5	61	30.5	30.5	61	30.5	30.5	
722	60	30	30	60	30	30	60	30	30	
723	62	31	31	62	31	31	62	31	31	
724	62	31	31	62	31	31	62	31	31	
725	62	31	31	62	31	31	62	31	31	
726	62	31	31	62	31	31	62	31	31	
727	65	32.5	32.5	65	32.5	32.5	65	32.5	32.5	
728	65	32.5	32.5	65	32.5	32.5	65	32.5	32.5	
729	65	32.5	32.5	65	32.5	32.5	65	32.5	32.5	
730	16	8	8	16	8	8	16	8	8	
731	16	8	8	16	8	8	16	8	8	
732	16	8	8	16	8	8	16	8	8	
733	16	8	8	16	8	8	16	8	8	
734	16	8	8	16	8	8	16	8	8	
735	16	8	8	16	8	8	16	8	8	
736	39	19.5	19.5	39	19.5	19.5	39	19.5	19.5	
737	47	23.5	23.5	47	23.5	23.5	47	23.5	23.5	
738	25	12.5	12.5	25	12.5	12.5	25	12.5	12.5	
739	68	34	34	68	34	34	68	34	34	
740	27	13.5	13.5	27	13.5	13.5	27	13.5	13.5	
741	56	28	28	56	28	28	56	28	28	
742	19	9.5	9.5	19	9.5	9.5	19	9.5	9.5	
743	25	12.5	12.5	25	12.5	12.5	25 61	12.5	12.5	
744 745	61 24	30.5 12	30.5 12	61 24	30.5 12	30.5 12	61 24	30.5 12	30.5 12	
745	45	22.5	22.5	45	22.5	22.5	45	22.5	22.5	
746	24	12	12	24	12	12	24	12	12	
747	39	19.5	19.5	39	19.5	19.5	39	19.5	19.5	
749	16	8	8	16	8	8	16	8	8	
749	10	o	O	10	O	0	١U	0	0	

Table C-1: Continued [pg. 16 of 20]

Ī	As Pla	anned Sch	edule		20-Jun-03		June 24,	2003 (Resc	heduled)
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR
750	35			35			35		
751	35	17.5	17.5	35	17.5	17.5	35	17.5	17.5
752	35	17.5	17.5	35	17.5	17.5	35	17.5	17.5
753	35	17.5	17.5	35	17.5	17.5	35	17.5	17.5
754	119	59.5	59.5	119	59.5	59.5	119	59.5	59.5
755	119	59.5	59.5	119	59.5	59.5	119	59.5	59.5
756	119	59.5	59.5	119	59.5	59.5	119	59.5	59.5
757	119	59.5	59.5	119	59.5	59.5	119	59.5	59.5
758	119	59.5	59.5	119	59.5	59.5	119	59.5	59.5
759	120	60	60	120	60	60	120	60	60
760	119	59.5	59.5	119	59.5	59.5	119	59.5	59.5
761	120	60	60	120	60	60	120	60	60
762	124	62	62	124	62	62	124	62	62
763	119	59.5	59.5	119	59.5	59.5	119	59.5	59.5
764	166	83	83	166	83	83	166	83	83
765	119	59.5	59.5	119	59.5	59.5	119	59.5	59.5
766	119	59.5	59.5	119	59.5	59.5	119	59.5	59.5
767	119	59.5	59.5	119	59.5	59.5	119	59.5	59.5
768	152	76	76	152	76	76 70.5	152	76	76
769	157	78.5	78.5	157	78.5	78.5	157	78.5	78.5
770	128	64	64	128	64	64	128	64	64
771	152	76	76	152	76	76	152	76	76
772	124	62 50.5	62 50.5	124	62 50.5	62 50.5	124	62 50.5	62 50.5
773	119	59.5 59.5	59.5	119 119	59.5 59.5	59.5	119 119	59.5 59.5	59.5
774 775	119 128	64	59.5 64	128	64	59.5 64	128	64	59.5 64
776	119	59.5	59.5	119	59.5	59.5	119	59.5	59.5
777	18	9	9	18	9	9	18	9	9
778	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
779	0	0	0	0	0	0	0	0	0
780	43	21.5	21.5	43	21.5	21.5	43	21.5	21.5
781	28	14	14	28	14	14	28	14	14
782	29	14.5	14.5	29	14.5	14.5	29	14.5	14.5
783	26	13	13	26	13	13	26	13	13
784	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
785	160	80	80	160	80	80	160	80	80
786	163	81.5	81.5	163	81.5	81.5	163	81.5	81.5
787	124	62	62	124	62	62	124	62	62
788	124	62	62	124	62	62	124	62	62
789	131	65.5	65.5	131	65.5	65.5	131	65.5	65.5
790	129	64.5	64.5	129	64.5	64.5	129	64.5	64.5
791	124	62	62	124	62	62	124	62	62
792	131	65.5	65.5	131	65.5	65.5	131	65.5	65.5
793	124	62	62	124	62	62	124	62	62
794	131	65.5	65.5	131	65.5	65.5	131	65.5	65.5
795	124	62	62	124	62	62	124	62	62
796	125	62.5	62.5	125	62.5	62.5	125	62.5	62.5
797	125	62.5	62.5	125	62.5	62.5	125	62.5	62.5
798	124	62	62	124	62	62	124	62	62
799	124	62	62	124	62	62	124	62	62
800	125	62.5	62.5	125	62.5	62.5	125	62.5	62.5
801	119	59.5	59.5	119	59.5	59.5	119	59.5	59.5

Table C-1: Continued [pg. 17 of 20]

	As Planned Schedule			20-Jun-03			June 24, 2003 (Rescheduled)			
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	
802	143			147			146			
803	143	71.5	71.5	147	73.5	73.5	146	73.5	72.5	
804	143	71.5	71.5	147	73.5	73.5	146	73.5	72.5	
805	120	60	60	120	60	60	120	60	60	
806	120	60	60	120	60	60	120	60	60	
807	120	60	60	120	60	60	120	60	60	
808	123	61.5	61.5	123	61.5	61.5	123	61.5	61.5	
809	133	66.5	66.5	133	66.5	66.5	133	66.5	66.5	
810	120	60	60	120	60	60	120	60	60	
811	120	60	60	120	60	60	120	60	60	
812	120	60	60	120	60	60	120	60	60	
813	120	60	60	120	60	60	120	60	60	
814	120	60	60	120	60	60	120	60	60	
815	120	60	60	120	60	60	120	60	60	
816	204	102	102	204	102	102	204	102	102	
817	120	60	60	120	60	60	120	60	60	
818	120	60	60	120	60	60	120	60	60	
819	90			90			90			
820	90	45	45	90	45	45	90	45	45	
821	90	45	45	90	45	45	90	45	45	
822	90	45	45	90	45	45	90	45	45	
823	90	45	45	90	45	45	90	45	45	
824	94	47	47	94	47	47	94	47	47	
825	90	45	45	90	45	45	90	45	45	
826	90	45	45	90	45	45	90	45	45	
827	94	47	47	94	47	47	94	47	47	
828	90	45	45	90	45	45	90	45	45	
829	90	45	45	90	45	45	90	45	45	
830	90	45	45	90	45	45	90	45	45	
831	90	45	45	90	45	45	90	45	45	
832	90	45	45	90	45	45	90	45	45	
833	91	45.5	45.5	91	45.5	45.5	91	45.5	45.5	
834	110	55	55	110	55	55	110	55	55	
835	91			91			91			
836	91	45.5	45.5	91	45.5	45.5	91	45.5	45.5	
837	109	54.5	54.5	109	54.5	54.5	109	54.5	54.5	
838	91	45.5	45.5	91	45.5	45.5	91	45.5	45.5	
839	91	45.5	45.5	91	45.5	45.5	91	45.5	45.5	
840	233	116.5	116.5	233	116.5	116.5	233	116.5	116.5	
841	233	116.5	116.5	233	116.5	116.5	233	116.5	116.5	
842	220	110	110	220	110	110	220	110	110	
843	25			25			25			
844	25	12.5	12.5	25	12.5	12.5	25	12.5	12.5	
845	25	12.5	12.5	25	12.5	12.5	25	12.5	12.5	
846	25	12.5	12.5	25	12.5	12.5	25	12.5	12.5	
847	25	12.5	12.5	25	12.5	12.5	25	12.5	12.5	
848	79	39.5	39.5	79	39.5	39.5	79	39.5	39.5	
849	81	40.5	40.5	81	40.5	40.5	81	40.5	40.5	
850	90	45	45	90	45	45	90	45	45	

Table C-1: Continued [pg. 18 of 20]

	As Planned Schedule			20-Jun-03			June 24, 2003 (Rescheduled)		
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR
851	93	46.5	46.5	93	46.5	46.5	93	46.5	46.5
852	40	20	20	40	20	20	40	20	20
853	40	20	20	40	20	20	40	20	20
854	40	20	20	40	20	20	40	20	20
855	40	20	20	40	20	20	40	20	20
856	40	20	20	40	20	20	40	20	20
857	108	54	54	108	54	54	108	54	54
858	103	51.5	51.5	103	51.5	51.5	103	51.5	51.5
859	103	51.5	51.5	103	51.5	51.5	103	51.5	51.5
860	103	51.5	51.5	103	51.5	51.5	103	51.5	51.5
861	25			25			25		
862	25	12.5	12.5	25	12.5	12.5	25	12.5	12.5
863	90	45	45	90	45	45	90	45	45
864	90	45	45	90	45	45	90	45	45
865	18	9	9	18	9	9	18	9	9
866	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5
867	0	0	0	0	0	0	0	0	0
868	43	21.5	21.5	43	21.5	21.5	43	21.5	21.5
869	28	14	14	28	14	14	28	14	14
870	27	13.5	13.5	27	13.5	13.5	27	13.5	13.5
871	24	12	12	24	12	12	24	12	12
872	13	6.5	6.5	13	6.5	6.5	13	6.5	6.5
873	25	12.5	12.5	25	12.5	12.5	25	12.5	12.5
874	25	12.5	12.5	25	12.5	12.5	25	12.5	12.5
875	95	47.5	47.5	95	47.5	47.5	95	47.5	47.5
876	54	27	27	54	27	27	54	27	27
877	47	23.5	23.5	47	23.5	23.5	47	23.5	23.5
878	44	22	22	44	22	22	44	22	22
879	47	23.5	23.5	47	23.5	23.5	47	23.5	23.5
880	44	22	22	44	22	22	44	22	22
881	47	23.5	23.5	47	23.5	23.5	47	23.5	23.5
882	50	25	25	50	25	25	50	25	25
883	92	46	46	92	46	46	92	46	46
884	50	25	25	50	25	25	50	25	25
885	53	26.5	26.5	53	26.5	26.5	53	26.5	26.5
886	50	25	25	50	25	25	50	25	25
887	44	22	22	44	22	22	44	22	22
888	44	22	22	44	22	22	44	22	22
889	47	23.5	23.5	47	23.5	23.5	47	23.5	23.5
890	47	23.5	23.5	47	23.5	23.5	47	23.5	23.5
891	47	23.5	23.5	47	23.5	23.5	47	23.5	23.5
892	44	22	22	44	22	22	44	22	22
893	77	38.5	38.5	77	38.5	38.5	77	38.5	38.5
894	70	35	35	70	35	35	70	35	35
895	55	27.5	27.5	55	27.5	27.5	55	27.5	27.5
896	91	45.5	45.5	91	45.5	45.5	91	45.5	45.5
897	76	38	38	76	38	38	76	38	38
898	70	35	35	70	35	35	70	35	35
899	18	9	9	18	9	9	18	9	9
900	29	14.5	14.5	29	14.5	14.5	29	14.5	14.5

Table C-1: Continued [pg. 19 of 20]

	As Planned Schedule			20-Jun-03			June 24, 2003 (Rescheduled)			
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	
901	75	37.5	37.5	75	37.5	37.5	75	37.5	37.5	
902	29	14.5	14.5	29	14.5	14.5	29	14.5	14.5	
903	19			19			19			
904	30	15	15	30	15	15	30	15	15	
905	18	9	9	18	9	9	18	9	9	
906	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5	
907	0	0	0	0	0	0	0	0	0	
908	43	21.5	21.5	43	21.5	21.5	43	21.5	21.5	
909	28	14	14	28	14	14	28	14	14	
910	18	9	9	18	9	9	18	9	9	
911	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5	
912	10	5	5	10	5	5	10	5	5	
913	33	16.5	16.5	33	16.5	16.5	33	16.5	16.5	
914	25	12.5	12.5	25	12.5	12.5	25	12.5	12.5	
915	63	31.5	31.5	63	31.5	31.5	63	31.5	31.5	
916	26	13	13	26	13	13	26	13	13	
917	15	7.5	7.5	15	7.5	7.5	15	7.5	7.5	
918	18	9	9	18	9	9	18	9	9	
919	10	5	5	10	5	5	10	5	5	
920	10	5	5	10	5	5	10	5	5	
921	55	27.5	27.5	55	27.5	27.5	55	27.5	27.5	
922	10	5	5	10	5	5	10	5	5	
923	76	38	38	76	38	38	76	38	38	
924	39	19.5	19.5	39	19.5	19.5	39	19.5	19.5	
925	41	20.5	20.5	41	20.5	20.5	41	20.5	20.5	
926	10	5 5	5	10	5	5	10	5 5	5	
927 928	10 10	5	5 5	10 10	5 5	5 5	10 10	5	5 5	
929	10	5	5	10	5	5	10	5	5	
930	55	27.5	27.5	55	27.5	27.5	55	27.5	27.5	
931	55	27.5	27.5	55	27.5	27.5	55	27.5	27.5	
932	55	27.5	27.5	55	27.5	27.5	55	27.5	27.5	
933	10	5	5	10	5	5	10	5	5	
934	36	18	18	36	18	18	36	18	18	
935	19	9.5	9.5	19	9.5	9.5	19	9.5	9.5	
936		22.5	22.5	45	22.5	22.5	45	22.5	22.5	
937	65	32.5	32.5	65	32.5	32.5	65	32.5	32.5	
938	31	15.5	15.5	31	15.5	15.5	31	15.5	15.5	
939	19	9.5	9.5	19	9.5	9.5	19	9.5	9.5	
940	10	5	5	10	5	5	10	5	5	
941	20	10	10	20	10	10	20	10	10	
942	20	10	10	20	10	10	20	10	10	
943	19	9.5	9.5	19	9.5	9.5	19	9.5	9.5	
944	0			0			0			
945	37	18.5	18.5	37	18.5	18.5	37	18.5	18.5	
946	23	11.5	11.5	23	11.5	11.5	23	11.5	11.5	
947	20	10	10	20	10	10	20	10	10	
948	0	0	0	0	0	0	0	0	0	
949	43	21.5	21.5	43	21.5	21.5	43	21.5	21.5	
950	28	14	14	28	14	14	28	14	14	

Table C-1: Continued [pg. 20 of 20]

Ī	As Planned Schedule				20-Jun-03		June 24, 2003 (Rescheduled)			
ID	TF	Owner	KR	TF	Owner	KR	TF	Owner	KR	
951	23	11.5	11.5	23	11.5	11.5	23	11.5	11.5	
952	20	10	10	20	10	10	20	10	10	
953	0	0	0	0	0	0	0	0	0	
954	37	18.5	18.5	37	18.5	18.5	37	18.5	18.5	
955	25	12.5	12.5	25	12.5	12.5	25	12.5	12.5	
956	61	30.5	30.5	61	30.5	30.5	61	30.5	30.5	
957	25	12.5	12.5	25	12.5	12.5	25	12.5	12.5	
958	24	12	12	24	12	12	24	12	12	
959	6	3	3	6	3	3	6	3	3	
960	20	10	10	20	10	10	20	10	10	
961	9	4.5	4.5	9	4.5	4.5	9	4.5	4.5	
962	0	0	0	0	0	0	0	0	0	
963	23	11.5	11.5	23	11.5	11.5	23	11.5	11.5	
964	0	0	0	0	0	0	0	0	0	
965	45	22.5	22.5	45	22.5	22.5	45	22.5	22.5	
966	0	0	0	0	0	0	0	0	0	
967	0	0	0	0	0	0	0	0	0	
968	0	0	0	0	0	0	0	0	0	
969	2	1	1	2	1	1	2	1	1	
970	3	1.5	1.5	3	1.5	1.5	3	1.5	1.5	
971	3	1.5	1.5	3	1.5	1.5	3	1.5	1.5	
972	0	0	0	0	0	0	0	0	0	
973	0	0	0	0	0	0	0	0	0	
974	0	0	0	0	0	0	0	0	0	
975	45	22.5	22.5	45	22.5	22.5	45	22.5	22.5	
976	45	22.5	22.5	45	22.5	22.5	45	22.5	22.5	
977	45	22.5	22.5	45	22.5	22.5	45	22.5	22.5	
978	0	0	0	0	0	0	0	0	0	
979	26	13	13	26	13	13	26	13	13	
980	0	0	0	0	0	0	0	0	0	
981	42	21	21	42	21	21	42	21	21	
982	25	12.5	12.5	25	12.5	12.5	25	12.5	12.5	
983	23	11.5	11.5	23	11.5	11.5	23	11.5	11.5	
984	0	0	0	0	0	0	0	0	0	
985	8	4	4	8	4	4	8	4	4	
986	0	0	0	0	0	0	0	0	0	
987	5	2.5	2.5	5	2.5	2.5	5	2.5	2.5	
988	6	3	3	6	3	3	6	3	3	
989	0	0	0	0	0	0	0	0	0	
990	23	11.5	11.5	23	11.5	11.5	23	11.5	11.5	
991	0	0	0	0	0	0	0	0	0	
992	0	0	0	0	0	0	0	0	0	
993	0	0	0	0	0	0	0	0	0	