

## Project Plan for the Evanston Database Project

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## **Abstract**

This paper contains the project plan for the Evanston Database Project. This project is planned for the National Association of Realtors. The scope of the project is to design, populate, and maintain a new database.

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## Project Plan for the Evanston Database Project

### Executive Summary

The Evanston Database Project will design an additional database for the National Association of Realtors. The new database will contain information about Listing Services including Multiple Listing Services and Commercial Information Exchanges. The project will also deliver a plan to build the database and to build a system that will provide access to the data. The plans for both projects will be completed by June 30, 2003.

There are two major phases to this project. In the Design Phase, the project team will produce the database design for the new Listing Services database and the functional designs for the systems to load and manage the database. Management will be in a position to decide to initiate the second phase in July. The Development and Deployment Phase will implement the system planned during the Design phase. The completion date of this final phase will depend upon staffing decisions made during early July.

The LS Database System will provide the following benefits:

1. The Center for REALTOR Technology (CRT) can see current developments related to Multiple Listing Services and Commercial Information Exchanges.
2. CRT can see if there are current problems with the services provided by the Listing Services and see if later versions of the software used to provide the service are available.
3. Information Technology Services (ITS) will have access to the system so that they can provide more information to internal groups.
4. CRT will be able to access impact of changing market conditions as a result of regionalization and/or consolidation.
5. The new database will provide a mechanism to integrate current and future CRT projects while maintaining compatibility with the Nrd's indexing system.

The main challenge for this project will be to determine the best way to populate the database. Some data is available from existing systems at the National Association of Realtors. Details about Listing Services and the relationships between NAR members and these Services must be obtained from other sources. The general approach will be determined during the Design Phase.

A second challenge will be staffing the project with individuals that possess the appropriate skills including knowledge of and access to the existing database.

Very preliminary estimates indicate that the total cost of this project will be less than \$300,000. This is based on the assumption that most of the project will be mostly staffed with NAR personnel and that the fully loaded costs for these personnel vary between \$65 and \$95 per hour. The estimate is also based on the number of person days expected to be spent in design and programming. This number is subject to change based on the results of detailed designs to be performed early in the second phase.

## Scope Management

### *Scope Statement*

**Background:** The National Association of Realtors has 54 direct members consisting of State Associations of Realtors. For membership purposes, Puerto Rico, Guam, District of Columbia and the US Virgin Islands are considered States. The State Associations have over one million members. These members can access the Web Site of the National Association of Realtors and they are also considered customers of the Association. When an individual Realtor joins a local association, the dues paid are divided between the local association, the state association and the National Association of Realtors.

**Scope:** This project will design an additional database, the Listing Service database, for the National Association of Realtors. This database will be accessible internally by staff at the National Association of Realtors. The staff can use this access to answer inquiries from the one million members. The project will also deliver a plan to build the database and to build a system that will provide staff access to the data.

This project will determine the best way to populate the database. The data required does not exist in a form that can simply be electronically loaded. It is likely that a manual data capture as well as some sophisticated web crawling software will need to be developed. The manual data capture system would probably require support from custom software. Once the approach is determined, the effort for the implementation project will be estimated.

The project will also determine the best way to publish the collected data to the members and to estimate the size of the workload the new system publishing system will generate. The most likely means of publication is internal inquiry via a Web Browser based interface. The National Association of Realtors currently uses Apache as the Web Server, PHP as the middleware, and will select a Relational Database Management System as part of the design project. It is anticipated that any prototyping work done as part of this design project will use the MySQL Relational Database.

More information about the scope of this project is shown in the Work Breakdown Structure in Appendix A.

### *Major Deliverables*

At the end of phase one, a design report will be issued. It will contain the design of the Listing Service Database including an Entity Relationship Diagram and a list of keys and other attributes for each entity. The design report will also contain a strategy for loading the database and functional designs for the systems necessary to maintain the database.

During the second phase, detailed designs containing screen layouts and module descriptions will be prepared for each system. Program code in HTML, PHP and MySQL will be developed

for each system. Unit test plans will be prepared for each unit of code and integration test plans will be prepared for each system. Training materials will be prepared for the people who will operate the system and for the people who will use the system in production. Help Text and Documentation will also be prepared for these same audiences.

### ***Issues and Assumptions***

The two main issues associated with this project both relate to populating the new database.

1. External data (data not available from within the National Association of Realtors) will be required. It is assumed that this data can be obtained by visiting existing Web Sites and by building a manual data capture system
2. Internal data from databases maintained by the Center for Realtor Technology and by Information Technology Services within the National Association of Realtors is also required. It is assumed that both of these internal organizations will make the necessary resources available to the project. Resources include the personnel time required to understand and extract data and the technical permissions necessary to access the required data.

## **Team Management**

### ***Roles and Responsibilities***

The responsibility Matrix on the next page details the roles and responsibilities of each team member. In phase one of the project, the Client Sponsor (CS) is Mark Lesswing. The roles of the Project Manager (PM) and the System Designer (SD) are both performed by Jim Miller. An outside consultant

In phase two it is possible to fill either or both of the Project Manager and System Designer roles internally. The project schedule assumes that two analysts, two programmers, two testers, on training and documentation specialist and one part-time database administrator will be added to the team in phase two.

**Figure 1 - Matrix of Roles and Responsibilities**

| Major Tasks                        | Project Team Members |    |    |   |   |   |     |     |
|------------------------------------|----------------------|----|----|---|---|---|-----|-----|
|                                    | CS                   | PM | SD | A | P | T | TDS | DBA |
|                                    |                      |    |    |   |   |   |     |     |
| Design Database                    | S                    | R  | A  |   |   |   |     | R   |
| Create Functional Design           |                      | P  | A  |   |   |   |     |     |
| Estimate Costs                     | S                    | A  | P  | P | P | P | P   | P   |
| Design Screens/Modules             |                      | R  | R  | A |   |   |     | P   |
| Develop Code                       |                      | R  |    | R | A |   |     | P   |
| Perform Developer Test             |                      | R  |    | R | A |   |     |     |
| Develop Formal Test Plans          |                      | R  | R  | P | P | A |     |     |
| Perform Unit Testing               |                      | R  |    | P | P | A |     |     |
| Perform Integration Testing        | S                    | R  |    | P | P | A |     |     |
| Send and Process Survey            | A                    | R  |    |   |   |   |     |     |
| Develop Training and Doc           |                      | R  |    |   |   |   | A   |     |
| Perform Pilot                      | S                    | R  |    | A |   |   | P   | P   |
| Deploy System                      | A                    |    |    |   |   | P | P   | P   |
| Conduct Post Implementation Review | P                    | A  | P  | P | P | P | P   | P   |

Key: Team Members CS=Client Sponsor, PM=Project Manager, SD=System Designer, A=Analyst, P=Programmer, T=Tester, TDS=Training/Documentation Specialist, DBA=Database Administrator

Key: RESPONSIBILITIES A=Accountable, P=Participant, R=Review Required, S=Sign-off Required

## Communication Management

Communications on the project will be managed by conducting regularly scheduled meetings and by maintaining an internal web site for the project. Figure 2 below shows the meeting plan. The third meeting in the figure is designed to manage the issue of communications between groups to facilitate transfer of data to the new database.

Figure 3 below shows the information that will be placed on the web site and who will maintain and access that information.

**Figure 2 - Formal Meetings**

| <b>Type</b>               | <b>Description / Purpose</b>                                                                                                                                                                                                                                          | <b>Audience</b>                                 | <b>Media</b>       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------|
| Team Status Meeting       | <i>weekly meetings:</i><br>To discuss project activities, progress and issues.                                                                                                                                                                                        | Team                                            | Agenda and minutes |
| Leadership Status Meeting | <i>Purpose</i> - These formal meeting address the accomplishments and results of the project including commitments, plans, risks, status of activities and significant issues for the project, as well as how the project fits into the current business environment. | CRT VP, Project Manager                         | Agenda and minutes |
| Database Status Meeting   | <i>Regularly scheduled meeting (usually weekly):</i><br>To discuss current status of database design, database loading efforts, and any project related issues requiring coordination between CRT and ITS.                                                            | CRT VP, ITS Executive, ITS DBA, Project Manager | Agenda and minutes |

Key: CRT=Center for Realtor Technology, ITS=Information Technology Services, DBA=Database Administrator.

Figure 3 - Project Web Site Responsibilities

| Document                               | Project Mgr | Development Team | Testing Team | ITS DBA | CRT Sponsor | Other Management | Comments      |
|----------------------------------------|-------------|------------------|--------------|---------|-------------|------------------|---------------|
| Overview Documents and Project Plan    | W           | X                | X            | X       | X           | X                |               |
| Database Design                        | X           | W                | X            | U       | X           |                  |               |
| Functional Specifications              | X           | W                | X            | X       | X           |                  |               |
| NAR Development Methodology            |             |                  |              |         |             |                  | Hardcopy only |
| Status Matrix by Program/Module        | W           | U                | U            |         | X           |                  |               |
| CRT/ITS Meeting Schedule               | W           |                  |              | X       | X           |                  |               |
| Formal project updates                 | W           | X                | X            | X       | X           | X                |               |
| Team member contact information        | W           | U                | U            |         | U           |                  |               |
| Documentation Package for each program | X           | W                | X            |         | X           |                  |               |

Key:

ITS DBA = Information Technology Services Database Administrator

CRT = Center for Realtor Technology (the National Association of REALTORS organization that sponsors this project)

NAR = National Association of REALTORS

W=Write access (responsible to create and allowed to maintain)

X=Read Access

U=Allowed to maintain

## Schedule and Cost Management

### *Project Schedule and Resource Estimates*

The project has been scheduled using Microsoft Project. The file used in Microsoft Project has been included in the zip file that also contains this plan document. A report printed from Microsoft Project is shown in Appendix C. This report shows the start and completion dates of each project task and shows the personnel resources assigned to each task.

### *Project Costs*

Based on the resources assigned to each task and the start and completion dates for each task, Microsoft Project produced a report of project costs by month. These costs are categorized by the fiscal year in which they are projected to occur in Figure 4 below. Equipment costs are calculated based on straight line depreciation over three years.

**Figure 4 - Project Costs by Fiscal Year**

| <b>Budget Category</b> | <b>FY 2004 Costs</b> | <b>FY 2005 Costs</b> | <b>Explanation</b>                                                                                | <b>Total Cost</b> |
|------------------------|----------------------|----------------------|---------------------------------------------------------------------------------------------------|-------------------|
| NAR Personnel          | 96,180.00            | 70,390.00            | From Microsoft Project                                                                            | 166,570.00        |
| Outside Consultant     | 42,000.00            | 22,800.00            | 2 days per week                                                                                   | 64,800.00         |
| Technical Books        | 1,000.00             | 0.00                 | 20 books at \$50/book                                                                             | 1,000.00          |
| Travel/Conferences     | 10,000.00            | 10,000.00            | 10 people @ 2000 each                                                                             | 20,000.00         |
| Development Equipment  | 5,000.00             | 5,000.00             | 3 new hires will need machines and software (Capital Expense = 15000, Annual Depreciation = 5000) | 10,000.00         |
| Production Server      | 2,666.67             | 2,666.67             | Capital Expense = 8000, Annual Depreciation = 2667)                                               | 5,333.33          |
| Misc Supplies/Phone    | 14,427.00            | 10,558.50            | 15% of compensation                                                                               | 24,985.50         |
| Total                  | 171,273.67           | 121,415.17           |                                                                                                   | 292,688.83        |
|                        |                      |                      |                                                                                                   | 0.00              |
| Two Year Total         |                      | 292,688.83           |                                                                                                   | 292,688.83        |

## Risk Management

All projects face risks that must be managed during the course of the project. The figures below identify the risks to be managed on this project. The main areas of focus on this project will be assuring that the project is properly staffed and that the people assigned to the project are able to spend the required time.

**Figure 5 - Summary of Risks to be Managed**

| Probability | High Impact      | Medium Impact              | Low Impact |
|-------------|------------------|----------------------------|------------|
| High        | Risk 10          | Risk 1                     |            |
| Medium      | Risk 4           | Risk 3<br>Risk 6<br>Risk 9 |            |
| Low         | Risk 2<br>Risk 8 | Risk 5<br>Risk 7           |            |

**Figure 6 - Listing of Risks to be Managed**

|   | Risk                                                   | Probability | Impact | Mitigation Steps                                                                                                                                       |
|---|--------------------------------------------------------|-------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Use of Technology new to organization (MySQL Database) | High        | Medium | Allow time for training. Provide SAMS text book for each team member using                                                                             |
| 2 | Unrealistic expectations or target date                | Low         | High   | Prepare a detailed project plan and review it with the sponsoring Vice President. Communicate project status weekly.                                   |
| 3 | Unstable application development environment           | Low         | Medium | Install all relevant software and hardware before development begins and test it with a single developer before the entire team uses the environment   |
| 4 | Changes in requirements                                | Medium      | High   | Establish change control procedures to immediately communicate the impact of proposed changes                                                          |
| 5 | Inadequate Resources                                   | Low         | Medium | Specify all resource assumptions in the project plan and revise the plan if the assumed resources are not made available                               |
| 6 | Inability to obtain data to populate database          | Medium      | Medium | Schedule tasks related to data acquisition early in the project. Revise the plan if initial assumptions about how data can be acquired are not correct |
| 7 | Improper staffing (insufficient skills)                | Low         | Medium | People now being considered to staff the project have adequate skills. Continue to monitor staffing to assure that this does not change                |
| 8 | Inadequate or ignored quality procedures               | Low         | High   | Establish the quality plan and procedures before the project begins and monitor daily once the project begins.                                         |
| 9 | Poor communications                                    | Medium      | Medium | Establish a project Web Site and a weekly status reporting system.                                                                                     |

|    |                                                   |      |      |                                                                                                                                                                                                         |
|----|---------------------------------------------------|------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                   |      |      | Personally meet with key stakeholders a least weekly.                                                                                                                                                   |
| 10 | Part time project resources have other priorities | High | High | Carefully plan the involvement of people from other departments in order to provide advanced notice of time commitments. Immediately inform management of any delays resulting from missed commitments. |
|    |                                                   |      |      |                                                                                                                                                                                                         |

## Project Control

### ***Change Control***

The policy for this project is that ALL changes must be documented, analyzed, estimated and approved before implementation. The Project Manager will work to create an attitude on the part of all (customers, team members, executives) that there is no such thing as a free change.

All proposed changes and all approved changes will be tracked in the Incident Database.

The Project Manager will determine for each change how far back in the life cycle to go for each change. For example, can the change be made directly in program code or is it necessary to update design documents. If the design documents must be updated, should the original documents be updated or should the change analysis just be attached to the original document?

The Project Manager will communicate and schedule approved changes (This could include revising the entire project plan. Example: If the programming team receives and implements a change, the training and documentation team as well as the marketing team may also need to change their work products.)

### ***Quality Plan***

The complete Quality Plan for this project is attached in Appendix B. The highlights of this plan include:

1. The Project Manager will be responsible for the quality of the project and will hold each individual team member accountable for the quality of his/her work.
2. There will be no independent quality assurance team outside of the project.
3. The project plan includes a testing team that reports directly to the Project Manager
4. The project team will maintain an Incident Database to keep track of changes and problems.

## References

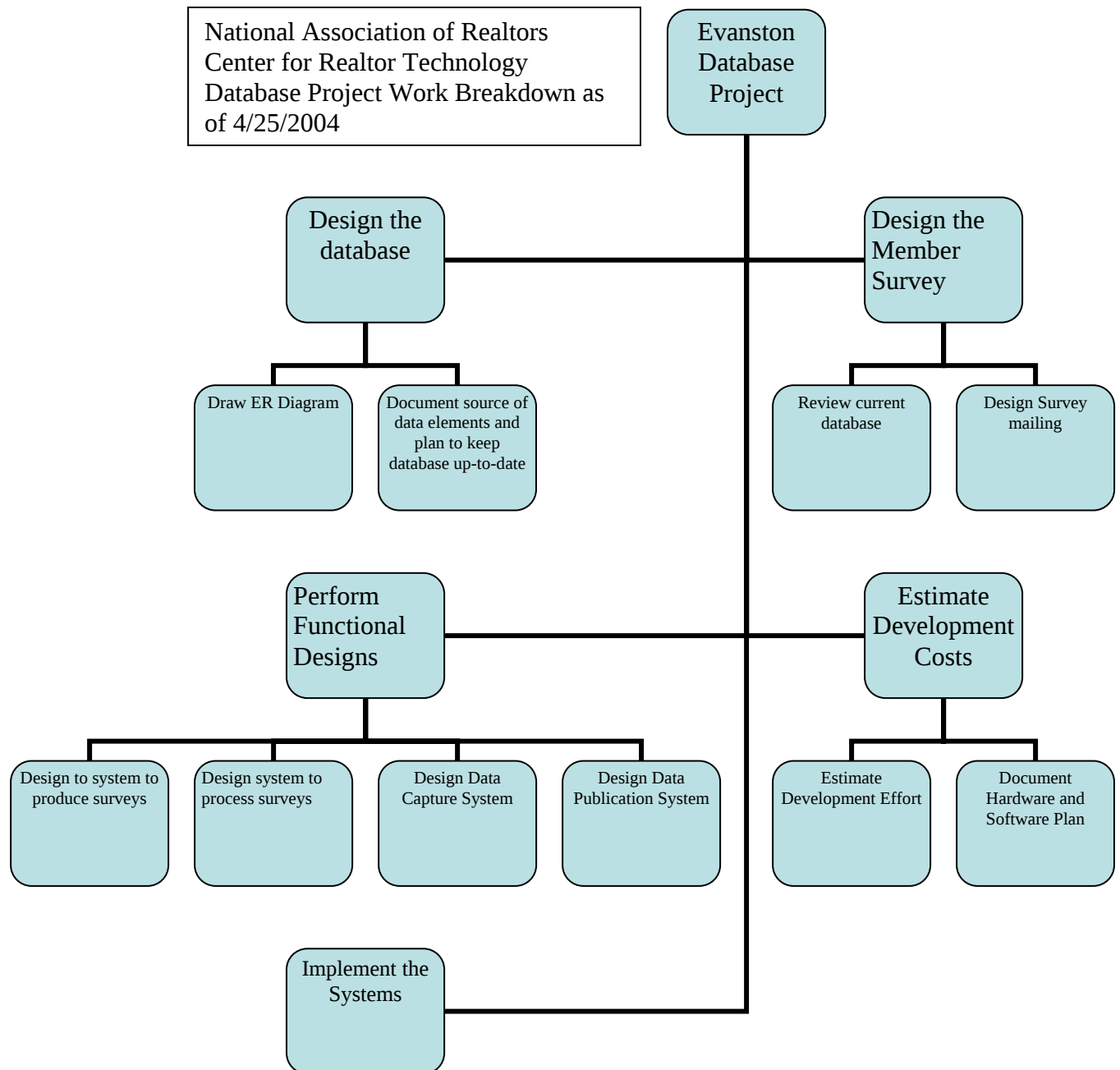
1. Washington State Department of Information Services (2004) – Quality Assurance Plan Template retrieved May 28, 2004 from <http://www.dis.wa.gov/pmframework/templates/qualityassurance.doc>

## Appendix A – Work Breakdown Structure

**Prepared by:** Jim Miller

**Date:** June 23, 2004

1. Design the Evanston Database
  - 1.1. Draw Entity Relationship Diagram
  - 1.2. Document planned source of each element
  - 1.3. Document plan for keeping database up-to-date
2. Design the Member Survey
  - 2.1. Review current database
  - 2.2. Design survey mailing
3. Produce functional designs for other required systems
  - 3.1. Design Survey Production System
  - 3.2. Design Survey Processing System
  - 3.3. Design Data Capture System
  - 3.4. Design Data Publication System
4. Estimate the Development Costs
  - 4.1. Estimate Effort
  - 4.2. Document additional hardware and software costs
5. Implement the Systems
  - 5.1. Develop Systems
    - 5.1.1. Develop Survey Production System
    - 5.1.2. Develop Survey Processing System
    - 5.1.3. Develop Data Capture System
    - 5.1.4. Develop Data Publication Systems
  - 5.2. Test Systems
    - 5.2.1. Develop Test Plans
    - 5.2.2. Perform Unit Testing
    - 5.2.3. Perform Integration Testing
  - 5.3. Develop Training and Documentation
  - 5.4. Deploy Systems



## Appendix B – Project Quality Plan

### *Introduction*

#### **Purpose**

The purpose of this plan is to assure that the Evanston Database Project meets the expectations of the National Association of Realtors in terms of functional capabilities, technical architecture and system performance.

#### **Scope**

This plan will address the quality of the design of the database and the approach to loading the database. It will also address the quality of the applications built to update the database and to report the contents of the database. The scope of this quality plan also includes a review of the security over the database and the applications.

#### **Background**

This project will construct a new database for the National Association of Realtors. Part of the database will be loaded with data from existing database tables. The remainder of the data will be derived by algorithms in the system being constructed in this project or entered manually. The Project Sponsor for this Project is the Vice President of the Center for REALTOR Technology. The existing database tables are managed by the Information Technology Service Department.

**Quality Checkpoints**

The major quality checkpoints in this project will be at the end of database design, at the end of functional design and a final major checkpoint before system deployment. There will also be checkpoints for each system after integration testing for that system is complete. Finally, there will be a post deployment follow up.

The first two checkpoints will consist of detailed reviews of the written design by the Project Sponsor (who has strong database skills) as well as a member of the Information Technology Services Department. The pre-deployment checkpoint will consist of a series of formal meetings where the Sponsor, the Project Manager will review all documentation, including training materials, and will review the test results.

*Staffing***Roles and Responsibilities**

There is no independent Quality Assurance team. The Project Manager is responsible for quality. There are people dedicated to testing on the project. These people report directly to the Project Manager. The Project Manager will hold each team member accountable for the quality of their work.

**Required Skills**

The Project Manager is expected to be familiar with basic quality concepts as well as have knowledge of the National Association of Realtors Development Methodology and the technologies (PHP, Apache, MySQL, and ORACLE) being used on the project. Each team member is expected to have knowledge of the portion of the National Association of Realtors Development Methodology that applies to the tasks to which they are assigned.

## *Reviews*

### Methodologies and Standards

The National Association of Realtors Development Methodology will be applied to this project. In addition, structured walkthroughs will be conducted for each coding unit just before developer testing for that unit begins. The template for this Quality Assurance Plan is from the State of Washington (<http://www.dis.wa.gov/pmframework/templates/qualityassurance.doc>).

### *Resource Estimates*

The estimates for all QA related activities are included in the Microsoft Project file for this project. As previously mentioned, all QA work will be performed within the project by the Project Manager and the Project Team. There will be some involvement in this project by members of the Information Technology Service department but this involvement will be minimal.

## ***Corrective Action***

### **Process**

The Project Manager will maintain a log of all issues identified in the major QA checkpoints and will be responsible to verify that all issues have been addressed.

**Product**

Any issues found after Developer Testing will be logged in the National Association of Realtors Incident Database by the Project Team member that discovers the problem (or receives a problem report from a person outside the team). The status of the incident will be updated by the person who clears the incident. The Project Manager will review the incident reports at least weekly once incident reporting begins.

**Preventive Measures**

Testing will begin early in the project. Each program will be Developer Tested immediately after it is coded. That same program will later be tested by a member of the testing team during Unit Testing. It will be further tested by a member of the testing team during Integration Testing. Each level of testing occurs as early as possible in the project.

Errors in the database being created are one of the major risks on this project. The Project Sponsor will use his database skills to specify a series of reports that can detect certain database errors and one of the project testers will run these reports weekly and create new Incidents in the Incident Database for follow-up.

## **Appendix C – Microsoft Project Task Report**

| ID |  | Task Name                                                                                                                                                                                                                                                                                                                                                                                     | Duration  |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------|-------------|-------------|-------|-------|--------|----|--------------------|------|--------|--------|-------------|-------------|----|--------------------|------|--------|--------|-------------|-------------|--|
| 1  |                                                                                   | Design Evanston Database                                                                                                                                                                                                                                                                                                                                                                      | 5 days    |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 2  | ✓                                                                                 | Document entities and relationships                                                                                                                                                                                                                                                                                                                                                           | 2 days    |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>18</td><td>SD System Designer</td><td>100%</td><td>16 hrs</td><td>0 days</td><td>Mon 5/10/04</td><td>Tue 5/11/04</td></tr></table>                                                                                                                             | ID        | Resource Name | Units       | Work        | Delay | Start | Finish | 18 | SD System Designer | 100% | 16 hrs | 0 days | Mon 5/10/04 | Tue 5/11/04 |    |                    |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                         | Work      | Delay         | Start       | Finish      |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 18 | SD System Designer                                                                | 100%                                                                                                                                                                                                                                                                                                                                                                                          | 16 hrs    | 0 days        | Mon 5/10/04 | Tue 5/11/04 |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 3  | ✓                                                                                 | Determine source of each data element                                                                                                                                                                                                                                                                                                                                                         | 2 days    |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>18</td><td>SD System Designer</td><td>100%</td><td>16 hrs</td><td>0 days</td><td>Thu 5/13/04</td><td>Fri 5/14/04</td></tr></table>                                                                                                                             | ID        | Resource Name | Units       | Work        | Delay | Start | Finish | 18 | SD System Designer | 100% | 16 hrs | 0 days | Thu 5/13/04 | Fri 5/14/04 |    |                    |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                         | Work      | Delay         | Start       | Finish      |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 18 | SD System Designer                                                                | 100%                                                                                                                                                                                                                                                                                                                                                                                          | 16 hrs    | 0 days        | Thu 5/13/04 | Fri 5/14/04 |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 4  |                                                                                   | Design Member Survyer                                                                                                                                                                                                                                                                                                                                                                         | 1 day     |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>18</td><td>SD System Designer</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Wed 5/12/04</td><td>Wed 5/12/04</td></tr></table>                                                                                                                              | ID        | Resource Name | Units       | Work        | Delay | Start | Finish | 18 | SD System Designer | 100% | 8 hrs  | 0 days | Wed 5/12/04 | Wed 5/12/04 |    |                    |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                         | Work      | Delay         | Start       | Finish      |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 18 | SD System Designer                                                                | 100%                                                                                                                                                                                                                                                                                                                                                                                          | 8 hrs     | 0 days        | Wed 5/12/04 | Wed 5/12/04 |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 5  |                                                                                   | Produce Functional Designs                                                                                                                                                                                                                                                                                                                                                                    | 24.5 days |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 6  |                                                                                   | Design Survey Production System                                                                                                                                                                                                                                                                                                                                                               | 4.5 days  |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 7  | ✓                                                                                 | Develop functional specifications                                                                                                                                                                                                                                                                                                                                                             | 4 days    |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>18</td><td>SD System Designer</td><td>100%</td><td>32 hrs</td><td>0 days</td><td>Tue 6/15/04</td><td>Fri 6/18/04</td></tr></table>                                                                                                                             | ID        | Resource Name | Units       | Work        | Delay | Start | Finish | 18 | SD System Designer | 100% | 32 hrs | 0 days | Tue 6/15/04 | Fri 6/18/04 |    |                    |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                         | Work      | Delay         | Start       | Finish      |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 18 | SD System Designer                                                                | 100%                                                                                                                                                                                                                                                                                                                                                                                          | 32 hrs    | 0 days        | Tue 6/15/04 | Fri 6/18/04 |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 8  |                                                                                   | Obtain approval to proceed                                                                                                                                                                                                                                                                                                                                                                    | 4 hrs     |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>3</td><td>Project manager</td><td>100%</td><td>4 hrs</td><td>0 days</td><td>Mon 6/21/04</td><td>Mon 6/21/04</td></tr><tr><td>9</td><td>CS Client Sponsor</td><td>100%</td><td>4 hrs</td><td>0 days</td><td>Mon 6/21/04</td><td>Mon 6/21/04</td></tr></table>   | ID        | Resource Name | Units       | Work        | Delay | Start | Finish | 3  | Project manager    | 100% | 4 hrs  | 0 days | Mon 6/21/04 | Mon 6/21/04 | 9  | CS Client Sponsor  | 100% | 4 hrs  | 0 days | Mon 6/21/04 | Mon 6/21/04 |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                         | Work      | Delay         | Start       | Finish      |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 3  | Project manager                                                                   | 100%                                                                                                                                                                                                                                                                                                                                                                                          | 4 hrs     | 0 days        | Mon 6/21/04 | Mon 6/21/04 |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 9  | CS Client Sponsor                                                                 | 100%                                                                                                                                                                                                                                                                                                                                                                                          | 4 hrs     | 0 days        | Mon 6/21/04 | Mon 6/21/04 |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 9  |                                                                                   | Design Survey Processing System                                                                                                                                                                                                                                                                                                                                                               | 5.5 days  |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 10 |                                                                                   | Develop functional specifications                                                                                                                                                                                                                                                                                                                                                             | 5 days    |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>18</td><td>SD System Designer</td><td>100%</td><td>40 hrs</td><td>0 days</td><td>Tue 6/1/04</td><td>Mon 6/7/04</td></tr></table>                                                                                                                               | ID        | Resource Name | Units       | Work        | Delay | Start | Finish | 18 | SD System Designer | 100% | 40 hrs | 0 days | Tue 6/1/04  | Mon 6/7/04  |    |                    |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                         | Work      | Delay         | Start       | Finish      |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 18 | SD System Designer                                                                | 100%                                                                                                                                                                                                                                                                                                                                                                                          | 40 hrs    | 0 days        | Tue 6/1/04  | Mon 6/7/04  |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 11 |                                                                                   | Obtain approval to proceed                                                                                                                                                                                                                                                                                                                                                                    | 4 hrs     |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>3</td><td>Project manager</td><td>100%</td><td>4 hrs</td><td>0 days</td><td>Tue 6/8/04</td><td>Tue 6/8/04</td></tr><tr><td>9</td><td>CS Client Sponsor</td><td>100%</td><td>4 hrs</td><td>0 days</td><td>Tue 6/8/04</td><td>Tue 6/8/04</td></tr></table>       | ID        | Resource Name | Units       | Work        | Delay | Start | Finish | 3  | Project manager    | 100% | 4 hrs  | 0 days | Tue 6/8/04  | Tue 6/8/04  | 9  | CS Client Sponsor  | 100% | 4 hrs  | 0 days | Tue 6/8/04  | Tue 6/8/04  |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                         | Work      | Delay         | Start       | Finish      |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 3  | Project manager                                                                   | 100%                                                                                                                                                                                                                                                                                                                                                                                          | 4 hrs     | 0 days        | Tue 6/8/04  | Tue 6/8/04  |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 9  | CS Client Sponsor                                                                 | 100%                                                                                                                                                                                                                                                                                                                                                                                          | 4 hrs     | 0 days        | Tue 6/8/04  | Tue 6/8/04  |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 12 |                                                                                   | Design Data Capture System                                                                                                                                                                                                                                                                                                                                                                    | 9.5 days  |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 13 |                                                                                   | Develop functional specifications                                                                                                                                                                                                                                                                                                                                                             | 9 days    |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>18</td><td>SD System Designer</td><td>100%</td><td>72 hrs</td><td>0 days</td><td>Mon 5/17/04</td><td>Thu 5/27/04</td></tr></table>                                                                                                                             | ID        | Resource Name | Units       | Work        | Delay | Start | Finish | 18 | SD System Designer | 100% | 72 hrs | 0 days | Mon 5/17/04 | Thu 5/27/04 |    |                    |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                         | Work      | Delay         | Start       | Finish      |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 18 | SD System Designer                                                                | 100%                                                                                                                                                                                                                                                                                                                                                                                          | 72 hrs    | 0 days        | Mon 5/17/04 | Thu 5/27/04 |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 14 |                                                                                   | Obtain approval to proceed                                                                                                                                                                                                                                                                                                                                                                    | 4 hrs     |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>3</td><td>Project manager</td><td>100%</td><td>4 hrs</td><td>0 days</td><td>Fri 5/28/04</td><td>Fri 5/28/04</td></tr><tr><td>9</td><td>CS Client Sponsor</td><td>100%</td><td>4 hrs</td><td>0 days</td><td>Fri 5/28/04</td><td>Fri 5/28/04</td></tr></table>   | ID        | Resource Name | Units       | Work        | Delay | Start | Finish | 3  | Project manager    | 100% | 4 hrs  | 0 days | Fri 5/28/04 | Fri 5/28/04 | 9  | CS Client Sponsor  | 100% | 4 hrs  | 0 days | Fri 5/28/04 | Fri 5/28/04 |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                         | Work      | Delay         | Start       | Finish      |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 3  | Project manager                                                                   | 100%                                                                                                                                                                                                                                                                                                                                                                                          | 4 hrs     | 0 days        | Fri 5/28/04 | Fri 5/28/04 |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 9  | CS Client Sponsor                                                                 | 100%                                                                                                                                                                                                                                                                                                                                                                                          | 4 hrs     | 0 days        | Fri 5/28/04 | Fri 5/28/04 |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 16 |                                                                                   | Design Data Publication System                                                                                                                                                                                                                                                                                                                                                                | 5.5 days  |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 17 |                                                                                   | Develop functional specifications                                                                                                                                                                                                                                                                                                                                                             | 5 days    |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>18</td><td>SD System Designer</td><td>100%</td><td>40 hrs</td><td>0 days</td><td>Tue 6/8/04</td><td>Mon 6/14/04</td></tr></table>                                                                                                                              | ID        | Resource Name | Units       | Work        | Delay | Start | Finish | 18 | SD System Designer | 100% | 40 hrs | 0 days | Tue 6/8/04  | Mon 6/14/04 |    |                    |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                         | Work      | Delay         | Start       | Finish      |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 18 | SD System Designer                                                                | 100%                                                                                                                                                                                                                                                                                                                                                                                          | 40 hrs    | 0 days        | Tue 6/8/04  | Mon 6/14/04 |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 18 |                                                                                   | Obtain approval to proceed                                                                                                                                                                                                                                                                                                                                                                    | 4 hrs     |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>3</td><td>Project manager</td><td>100%</td><td>4 hrs</td><td>0 days</td><td>Tue 6/15/04</td><td>Tue 6/15/04</td></tr><tr><td>9</td><td>CS Client Sponsor</td><td>100%</td><td>4 hrs</td><td>0 days</td><td>Tue 6/15/04</td><td>Tue 6/15/04</td></tr></table>   | ID        | Resource Name | Units       | Work        | Delay | Start | Finish | 3  | Project manager    | 100% | 4 hrs  | 0 days | Tue 6/15/04 | Tue 6/15/04 | 9  | CS Client Sponsor  | 100% | 4 hrs  | 0 days | Tue 6/15/04 | Tue 6/15/04 |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                         | Work      | Delay         | Start       | Finish      |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 3  | Project manager                                                                   | 100%                                                                                                                                                                                                                                                                                                                                                                                          | 4 hrs     | 0 days        | Tue 6/15/04 | Tue 6/15/04 |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 9  | CS Client Sponsor                                                                 | 100%                                                                                                                                                                                                                                                                                                                                                                                          | 4 hrs     | 0 days        | Tue 6/15/04 | Tue 6/15/04 |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 20 |                                                                                   | Functional Design Complete                                                                                                                                                                                                                                                                                                                                                                    | 0 days    |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 22 |                                                                                   | Estimate Development Costs                                                                                                                                                                                                                                                                                                                                                                    | 5.5 days  |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 23 |                                                                                   | Estimate Effort                                                                                                                                                                                                                                                                                                                                                                               | 5 days    |               |             |             |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>10</td><td>A1 Analyst 1</td><td>100%</td><td>40 hrs</td><td>0 days</td><td>Mon 6/21/04</td><td>Mon 6/28/04</td></tr><tr><td>18</td><td>SD System Designer</td><td>100%</td><td>40 hrs</td><td>0 days</td><td>Mon 6/21/04</td><td>Mon 6/28/04</td></tr></table> | ID        | Resource Name | Units       | Work        | Delay | Start | Finish | 10 | A1 Analyst 1       | 100% | 40 hrs | 0 days | Mon 6/21/04 | Mon 6/28/04 | 18 | SD System Designer | 100% | 40 hrs | 0 days | Mon 6/21/04 | Mon 6/28/04 |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                         | Work      | Delay         | Start       | Finish      |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 10 | A1 Analyst 1                                                                      | 100%                                                                                                                                                                                                                                                                                                                                                                                          | 40 hrs    | 0 days        | Mon 6/21/04 | Mon 6/28/04 |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |
| 18 | SD System Designer                                                                | 100%                                                                                                                                                                                                                                                                                                                                                                                          | 40 hrs    | 0 days        | Mon 6/21/04 | Mon 6/28/04 |       |       |        |    |                    |      |        |        |             |             |    |                    |      |        |        |             |             |  |

| ID |  | Task Name                                                                                                                                                                                                                                                                                                                                                                                   | Duration |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
|----|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------|--------------|--------------|-------|-------|--------|----|-----------------|------|---------|--------|--------------|--------------|----|--------------------|------|-------|--------|-------------|-------------|--|
| 24 |                                                                                   | Document additional hardware and software costs                                                                                                                                                                                                                                                                                                                                             | 1 day    |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>10</td><td>A1 Analyst 1</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Mon 6/21/04</td><td>Mon 6/28/04</td></tr><tr><td>18</td><td>SD System Designer</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Mon 6/21/04</td><td>Mon 6/28/04</td></tr></table> | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 10 | A1 Analyst 1    | 100% | 8 hrs   | 0 days | Mon 6/21/04  | Mon 6/28/04  | 18 | SD System Designer | 100% | 8 hrs | 0 days | Mon 6/21/04 | Mon 6/28/04 |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                       | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 10 | A1 Analyst 1                                                                      | 100%                                                                                                                                                                                                                                                                                                                                                                                        | 8 hrs    | 0 days        | Mon 6/21/04  | Mon 6/28/04  |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 18 | SD System Designer                                                                | 100%                                                                                                                                                                                                                                                                                                                                                                                        | 8 hrs    | 0 days        | Mon 6/21/04  | Mon 6/28/04  |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 25 |                                                                                   | Approve Development Project                                                                                                                                                                                                                                                                                                                                                                 | 0 days   |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>3</td><td>Project manager</td><td>100%</td><td>0 hrs</td><td>0 days</td><td>Mon 6/28/04</td><td>Mon 6/28/04</td></tr><tr><td>9</td><td>CS Client Sponsor</td><td>100%</td><td>0 hrs</td><td>0 days</td><td>Mon 6/28/04</td><td>Mon 6/28/04</td></tr></table> | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 3  | Project manager | 100% | 0 hrs   | 0 days | Mon 6/28/04  | Mon 6/28/04  | 9  | CS Client Sponsor  | 100% | 0 hrs | 0 days | Mon 6/28/04 | Mon 6/28/04 |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                       | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 3  | Project manager                                                                   | 100%                                                                                                                                                                                                                                                                                                                                                                                        | 0 hrs    | 0 days        | Mon 6/28/04  | Mon 6/28/04  |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 9  | CS Client Sponsor                                                                 | 100%                                                                                                                                                                                                                                                                                                                                                                                        | 0 hrs    | 0 days        | Mon 6/28/04  | Mon 6/28/04  |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 26 |                                                                                   | Develop and Deploy systems                                                                                                                                                                                                                                                                                                                                                                  | 131 days |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 27 |                                                                                   | Develop Systems (Revise in June)                                                                                                                                                                                                                                                                                                                                                            | 131 days |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 28 |                                                                                   | Develop Survey Production System                                                                                                                                                                                                                                                                                                                                                            | 124 days |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 29 |                                                                                   | Review functional specifications                                                                                                                                                                                                                                                                                                                                                            | 1 day    |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>10</td><td>A1 Analyst 1</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Mon 7/12/04</td><td>Mon 7/12/04</td></tr></table>                                                                                                                                  | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 10 | A1 Analyst 1    | 100% | 8 hrs   | 0 days | Mon 7/12/04  | Mon 7/12/04  |    |                    |      |       |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                       | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 10 | A1 Analyst 1                                                                      | 100%                                                                                                                                                                                                                                                                                                                                                                                        | 8 hrs    | 0 days        | Mon 7/12/04  | Mon 7/12/04  |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 30 |                                                                                   | Design screens and modules                                                                                                                                                                                                                                                                                                                                                                  | 2 days   |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>10</td><td>A1 Analyst 1</td><td>100%</td><td>16 hrs</td><td>0 days</td><td>Tue 7/13/04</td><td>Wed 7/14/04</td></tr></table>                                                                                                                                 | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 10 | A1 Analyst 1    | 100% | 16 hrs  | 0 days | Tue 7/13/04  | Wed 7/14/04  |    |                    |      |       |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                       | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 10 | A1 Analyst 1                                                                      | 100%                                                                                                                                                                                                                                                                                                                                                                                        | 16 hrs   | 0 days        | Tue 7/13/04  | Wed 7/14/04  |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 31 |                                                                                   | Develop code                                                                                                                                                                                                                                                                                                                                                                                | 10 days  |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>12</td><td>P1Programmer 1</td><td>100%</td><td>80 hrs</td><td>0 days</td><td>Mon 9/27/04</td><td>Fri 10/8/04</td></tr></table>                                                                                                                               | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 12 | P1Programmer 1  | 100% | 80 hrs  | 0 days | Mon 9/27/04  | Fri 10/8/04  |    |                    |      |       |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                       | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 12 | P1Programmer 1                                                                    | 100%                                                                                                                                                                                                                                                                                                                                                                                        | 80 hrs   | 0 days        | Mon 9/27/04  | Fri 10/8/04  |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 32 |                                                                                   | Developer testing (primary debugging)                                                                                                                                                                                                                                                                                                                                                       | 10 days  |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>12</td><td>P1Programmer 1</td><td>100%</td><td>80 hrs</td><td>0 days</td><td>Mon 12/20/04</td><td>Fri 12/31/04</td></tr></table>                                                                                                                             | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 12 | P1Programmer 1  | 100% | 80 hrs  | 0 days | Mon 12/20/04 | Fri 12/31/04 |    |                    |      |       |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                       | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 12 | P1Programmer 1                                                                    | 100%                                                                                                                                                                                                                                                                                                                                                                                        | 80 hrs   | 0 days        | Mon 12/20/04 | Fri 12/31/04 |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 33 |                                                                                   | Develop Survey Processing System                                                                                                                                                                                                                                                                                                                                                            | 108 days |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 34 |                                                                                   | Review functional specifications                                                                                                                                                                                                                                                                                                                                                            | 1 day    |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>11</td><td>A2 Anslyst 2</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Tue 7/6/04</td><td>Tue 7/6/04</td></tr></table>                                                                                                                                    | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 11 | A2 Anslyst 2    | 100% | 8 hrs   | 0 days | Tue 7/6/04   | Tue 7/6/04   |    |                    |      |       |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                       | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 11 | A2 Anslyst 2                                                                      | 100%                                                                                                                                                                                                                                                                                                                                                                                        | 8 hrs    | 0 days        | Tue 7/6/04   | Tue 7/6/04   |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 35 |                                                                                   | Design screens and modules                                                                                                                                                                                                                                                                                                                                                                  | 2 days   |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>11</td><td>A2 Anslyst 2</td><td>100%</td><td>16 hrs</td><td>0 days</td><td>Thu 7/8/04</td><td>Fri 7/9/04</td></tr></table>                                                                                                                                   | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 11 | A2 Anslyst 2    | 100% | 16 hrs  | 0 days | Thu 7/8/04   | Fri 7/9/04   |    |                    |      |       |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                       | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 11 | A2 Anslyst 2                                                                      | 100%                                                                                                                                                                                                                                                                                                                                                                                        | 16 hrs   | 0 days        | Thu 7/8/04   | Fri 7/9/04   |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 36 |                                                                                   | Develop code                                                                                                                                                                                                                                                                                                                                                                                | 15 days  |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>13</td><td>P2 Programmer 2</td><td>100%</td><td>120 hrs</td><td>0 days</td><td>Fri 8/20/04</td><td>Fri 9/10/04</td></tr></table>                                                                                                                             | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 13 | P2 Programmer 2 | 100% | 120 hrs | 0 days | Fri 8/20/04  | Fri 9/10/04  |    |                    |      |       |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                       | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 13 | P2 Programmer 2                                                                   | 100%                                                                                                                                                                                                                                                                                                                                                                                        | 120 hrs  | 0 days        | Fri 8/20/04  | Fri 9/10/04  |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 37 |                                                                                   | Developer testing (primary debugging)                                                                                                                                                                                                                                                                                                                                                       | 15 days  |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>13</td><td>P2 Programmer 2</td><td>100%</td><td>120 hrs</td><td>0 days</td><td>Mon 11/15/04</td><td>Fri 12/3/04</td></tr></table>                                                                                                                            | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 13 | P2 Programmer 2 | 100% | 120 hrs | 0 days | Mon 11/15/04 | Fri 12/3/04  |    |                    |      |       |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                       | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 13 | P2 Programmer 2                                                                   | 100%                                                                                                                                                                                                                                                                                                                                                                                        | 120 hrs  | 0 days        | Mon 11/15/04 | Fri 12/3/04  |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 38 |                                                                                   | Develop Data Capture System                                                                                                                                                                                                                                                                                                                                                                 | 92 days  |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 39 |                                                                                   | Review functional specifications                                                                                                                                                                                                                                                                                                                                                            | 1 day    |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>10</td><td>A1 Analyst 1</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Tue 6/29/04</td><td>Tue 6/29/04</td></tr></table>                                                                                                                                  | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 10 | A1 Analyst 1    | 100% | 8 hrs   | 0 days | Tue 6/29/04  | Tue 6/29/04  |    |                    |      |       |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                       | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 10 | A1 Analyst 1                                                                      | 100%                                                                                                                                                                                                                                                                                                                                                                                        | 8 hrs    | 0 days        | Tue 6/29/04  | Tue 6/29/04  |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 40 |                                                                                   | Design screens and modules                                                                                                                                                                                                                                                                                                                                                                  | 2 days   |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>10</td><td>A1 Analyst 1</td><td>100%</td><td>16 hrs</td><td>0 days</td><td>Wed 6/30/04</td><td>Thu 7/1/04</td></tr></table>                                                                                                                                  | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 10 | A1 Analyst 1    | 100% | 16 hrs  | 0 days | Wed 6/30/04  | Thu 7/1/04   |    |                    |      |       |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                       | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 10 | A1 Analyst 1                                                                      | 100%                                                                                                                                                                                                                                                                                                                                                                                        | 16 hrs   | 0 days        | Wed 6/30/04  | Thu 7/1/04   |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 41 |                                                                                   | Develop code                                                                                                                                                                                                                                                                                                                                                                                | 20 days  |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>12</td><td>P1Programmer 1</td><td>100%</td><td>160 hrs</td><td>0 days</td><td>Mon 7/19/04</td><td>Fri 8/13/04</td></tr></table>                                                                                                                              | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 12 | P1Programmer 1  | 100% | 160 hrs | 0 days | Mon 7/19/04  | Fri 8/13/04  |    |                    |      |       |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                       | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |
| 12 | P1Programmer 1                                                                    | 100%                                                                                                                                                                                                                                                                                                                                                                                        | 160 hrs  | 0 days        | Mon 7/19/04  | Fri 8/13/04  |       |       |        |    |                 |      |         |        |              |              |    |                    |      |       |        |             |             |  |

| ID |  | Task Name                                                                                                                                                                                                                                                                                                                                                                             | Duration |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
|----|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------|--------------|--------------|-------|-------|--------|----|-----------------|------|---------|--------|--------------|--------------|----|-------------|------|--------|--------|-------------|-------------|--|
| 42 |                                                                                   | Developer testing (primary debugging)                                                                                                                                                                                                                                                                                                                                                 | 20 days  |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>12</td><td>P1Programmer 1</td><td>100%</td><td>160 hrs</td><td>0 days</td><td>Tue 10/12/04</td><td>Mon 11/8/04</td></tr></table>                                                                                                                       | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 12 | P1Programmer 1  | 100% | 160 hrs | 0 days | Tue 10/12/04 | Mon 11/8/04  |    |             |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 12 | P1Programmer 1                                                                    | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 160 hrs  | 0 days        | Tue 10/12/04 | Mon 11/8/04  |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 43 |                                                                                   | Develop Data Publication System                                                                                                                                                                                                                                                                                                                                                       | 123 days |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 44 |                                                                                   | Review functional specifications                                                                                                                                                                                                                                                                                                                                                      | 1 day    |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>11</td><td>A2 Anslyst 2</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Tue 7/6/04</td><td>Tue 7/6/04</td></tr></table>                                                                                                                              | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 11 | A2 Anslyst 2    | 100% | 8 hrs   | 0 days | Tue 7/6/04   | Tue 7/6/04   |    |             |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 11 | A2 Anslyst 2                                                                      | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 8 hrs    | 0 days        | Tue 7/6/04   | Tue 7/6/04   |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 45 |                                                                                   | Design screens and modules                                                                                                                                                                                                                                                                                                                                                            | 2 days   |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>11</td><td>A2 Anslyst 2</td><td>100%</td><td>16 hrs</td><td>0 days</td><td>Mon 7/12/04</td><td>Tue 7/13/04</td></tr></table>                                                                                                                           | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 11 | A2 Anslyst 2    | 100% | 16 hrs  | 0 days | Mon 7/12/04  | Tue 7/13/04  |    |             |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 11 | A2 Anslyst 2                                                                      | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 16 hrs   | 0 days        | Mon 7/12/04  | Tue 7/13/04  |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 46 |                                                                                   | Develop code                                                                                                                                                                                                                                                                                                                                                                          | 15 days  |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>13</td><td>P2 Programmer 2</td><td>100%</td><td>120 hrs</td><td>0 days</td><td>Mon 9/13/04</td><td>Fri 10/1/04</td></tr></table>                                                                                                                       | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 13 | P2 Programmer 2 | 100% | 120 hrs | 0 days | Mon 9/13/04  | Fri 10/1/04  |    |             |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 13 | P2 Programmer 2                                                                   | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 120 hrs  | 0 days        | Mon 9/13/04  | Fri 10/1/04  |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 47 |                                                                                   | Developer testing (primary debugging)                                                                                                                                                                                                                                                                                                                                                 | 15 days  |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>13</td><td>P2 Programmer 2</td><td>100%</td><td>120 hrs</td><td>0 days</td><td>Mon 12/6/04</td><td>Fri 12/24/04</td></tr></table>                                                                                                                      | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 13 | P2 Programmer 2 | 100% | 120 hrs | 0 days | Mon 12/6/04  | Fri 12/24/04 |    |             |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 13 | P2 Programmer 2                                                                   | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 120 hrs  | 0 days        | Mon 12/6/04  | Fri 12/24/04 |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 48 |                                                                                   | Development Complete                                                                                                                                                                                                                                                                                                                                                                  | 0 days   |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 49 |                                                                                   | Testing                                                                                                                                                                                                                                                                                                                                                                               | 33 days  |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 50 |                                                                                   | Develop unit test plans using product specifications                                                                                                                                                                                                                                                                                                                                  | 4 days   |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>14</td><td>T1 Tester 1</td><td>100%</td><td>32 hrs</td><td>0 days</td><td>Mon 1/3/05</td><td>Thu 1/6/05</td></tr><tr><td>15</td><td>T2 Tester 2</td><td>100%</td><td>32 hrs</td><td>0 days</td><td>Mon 1/3/05</td><td>Thu 1/6/05</td></tr></table>     | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 14 | T1 Tester 1     | 100% | 32 hrs  | 0 days | Mon 1/3/05   | Thu 1/6/05   | 15 | T2 Tester 2 | 100% | 32 hrs | 0 days | Mon 1/3/05  | Thu 1/6/05  |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 14 | T1 Tester 1                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 32 hrs   | 0 days        | Mon 1/3/05   | Thu 1/6/05   |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 15 | T2 Tester 2                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 32 hrs   | 0 days        | Mon 1/3/05   | Thu 1/6/05   |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 51 |                                                                                   | Develop integration test plans using product specifications                                                                                                                                                                                                                                                                                                                           | 2 days   |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>14</td><td>T1 Tester 1</td><td>100%</td><td>16 hrs</td><td>0 days</td><td>Tue 2/15/05</td><td>Wed 2/16/05</td></tr><tr><td>15</td><td>T2 Tester 2</td><td>100%</td><td>16 hrs</td><td>0 days</td><td>Tue 2/15/05</td><td>Wed 2/16/05</td></tr></table> | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 14 | T1 Tester 1     | 100% | 16 hrs  | 0 days | Tue 2/15/05  | Wed 2/16/05  | 15 | T2 Tester 2 | 100% | 16 hrs | 0 days | Tue 2/15/05 | Wed 2/16/05 |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 14 | T1 Tester 1                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 16 hrs   | 0 days        | Tue 2/15/05  | Wed 2/16/05  |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 15 | T2 Tester 2                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 16 hrs   | 0 days        | Tue 2/15/05  | Wed 2/16/05  |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 52 |                                                                                   | Unit Testing                                                                                                                                                                                                                                                                                                                                                                          | 7.5 days |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 53 |                                                                                   | Review modular code                                                                                                                                                                                                                                                                                                                                                                   | 2.5 days |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>14</td><td>T1 Tester 1</td><td>100%</td><td>20 hrs</td><td>0 days</td><td>Fri 1/7/05</td><td>Tue 1/11/05</td></tr><tr><td>15</td><td>T2 Tester 2</td><td>100%</td><td>20 hrs</td><td>0 days</td><td>Fri 1/7/05</td><td>Tue 1/11/05</td></tr></table>   | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 14 | T1 Tester 1     | 100% | 20 hrs  | 0 days | Fri 1/7/05   | Tue 1/11/05  | 15 | T2 Tester 2 | 100% | 20 hrs | 0 days | Fri 1/7/05  | Tue 1/11/05 |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 14 | T1 Tester 1                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 20 hrs   | 0 days        | Fri 1/7/05   | Tue 1/11/05  |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 15 | T2 Tester 2                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 20 hrs   | 0 days        | Fri 1/7/05   | Tue 1/11/05  |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 54 |                                                                                   | Test component modules to product specifications                                                                                                                                                                                                                                                                                                                                      | 1 day    |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>14</td><td>T1 Tester 1</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Tue 1/11/05</td><td>Wed 1/12/05</td></tr><tr><td>15</td><td>T2 Tester 2</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Tue 1/11/05</td><td>Wed 1/12/05</td></tr></table>   | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 14 | T1 Tester 1     | 100% | 8 hrs   | 0 days | Tue 1/11/05  | Wed 1/12/05  | 15 | T2 Tester 2 | 100% | 8 hrs  | 0 days | Tue 1/11/05 | Wed 1/12/05 |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 14 | T1 Tester 1                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 8 hrs    | 0 days        | Tue 1/11/05  | Wed 1/12/05  |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 15 | T2 Tester 2                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 8 hrs    | 0 days        | Tue 1/11/05  | Wed 1/12/05  |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 55 |                                                                                   | Identify anomalies to product specifications                                                                                                                                                                                                                                                                                                                                          | 1.5 days |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>14</td><td>T1 Tester 1</td><td>100%</td><td>12 hrs</td><td>0 days</td><td>Wed 1/12/05</td><td>Thu 1/13/05</td></tr><tr><td>15</td><td>T2 Tester 2</td><td>100%</td><td>12 hrs</td><td>0 days</td><td>Wed 1/12/05</td><td>Thu 1/13/05</td></tr></table> | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 14 | T1 Tester 1     | 100% | 12 hrs  | 0 days | Wed 1/12/05  | Thu 1/13/05  | 15 | T2 Tester 2 | 100% | 12 hrs | 0 days | Wed 1/12/05 | Thu 1/13/05 |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 14 | T1 Tester 1                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 12 hrs   | 0 days        | Wed 1/12/05  | Thu 1/13/05  |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 15 | T2 Tester 2                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 12 hrs   | 0 days        | Wed 1/12/05  | Thu 1/13/05  |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 56 |                                                                                   | Modify code                                                                                                                                                                                                                                                                                                                                                                           | 1.5 days |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>14</td><td>T1 Tester 1</td><td>100%</td><td>12 hrs</td><td>0 days</td><td>Fri 1/14/05</td><td>Mon 1/17/05</td></tr><tr><td>15</td><td>T2 Tester 2</td><td>100%</td><td>12 hrs</td><td>0 days</td><td>Fri 1/14/05</td><td>Mon 1/17/05</td></tr></table> | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 14 | T1 Tester 1     | 100% | 12 hrs  | 0 days | Fri 1/14/05  | Mon 1/17/05  | 15 | T2 Tester 2 | 100% | 12 hrs | 0 days | Fri 1/14/05 | Mon 1/17/05 |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 14 | T1 Tester 1                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 12 hrs   | 0 days        | Fri 1/14/05  | Mon 1/17/05  |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 15 | T2 Tester 2                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 12 hrs   | 0 days        | Fri 1/14/05  | Mon 1/17/05  |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 57 |                                                                                   | Re-test modified code                                                                                                                                                                                                                                                                                                                                                                 | 1 day    |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>14</td><td>T1 Tester 1</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Mon 1/17/05</td><td>Tue 1/18/05</td></tr><tr><td>15</td><td>T2 Tester 2</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Mon 1/17/05</td><td>Tue 1/18/05</td></tr></table>   | ID       | Resource Name | Units        | Work         | Delay | Start | Finish | 14 | T1 Tester 1     | 100% | 8 hrs   | 0 days | Mon 1/17/05  | Tue 1/18/05  | 15 | T2 Tester 2 | 100% | 8 hrs  | 0 days | Mon 1/17/05 | Tue 1/18/05 |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work     | Delay         | Start        | Finish       |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 14 | T1 Tester 1                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 8 hrs    | 0 days        | Mon 1/17/05  | Tue 1/18/05  |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 15 | T2 Tester 2                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 8 hrs    | 0 days        | Mon 1/17/05  | Tue 1/18/05  |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 58 |                                                                                   | Unit testing complete                                                                                                                                                                                                                                                                                                                                                                 | 0 days   |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |
| 59 |                                                                                   | Integration Testing                                                                                                                                                                                                                                                                                                                                                                   | 8.5 days |               |              |              |       |       |        |    |                 |      |         |        |              |              |    |             |      |        |        |             |             |  |

| ID |  | Task Name                                                                                                                                                                                                                                                                                                                                                                             | Duration       |               |             |             |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
|----|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------|-------------|-------------|-------|-------|--------|----|----------------------------|------|---------|--------|-------------|-------------|----|-------------|------|--------|--------|-------------|-------------|--|
| 60 |                                                                                   | Test module integration                                                                                                                                                                                                                                                                                                                                                               | 5 days         |               |             |             |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>14</td><td>T1 Tester 1</td><td>100%</td><td>40 hrs</td><td>0 days</td><td>Tue 1/18/05</td><td>Tue 1/25/05</td></tr><tr><td>15</td><td>T2 Tester 2</td><td>100%</td><td>40 hrs</td><td>0 days</td><td>Tue 1/18/05</td><td>Tue 1/25/05</td></tr></table> | ID             | Resource Name | Units       | Work        | Delay | Start | Finish | 14 | T1 Tester 1                | 100% | 40 hrs  | 0 days | Tue 1/18/05 | Tue 1/25/05 | 15 | T2 Tester 2 | 100% | 40 hrs | 0 days | Tue 1/18/05 | Tue 1/25/05 |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work           | Delay         | Start       | Finish      |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 14 | T1 Tester 1                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 40 hrs         | 0 days        | Tue 1/18/05 | Tue 1/25/05 |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 15 | T2 Tester 2                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 40 hrs         | 0 days        | Tue 1/18/05 | Tue 1/25/05 |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 61 |                                                                                   | Identify anomalies to specifications                                                                                                                                                                                                                                                                                                                                                  | 1 day          |               |             |             |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>14</td><td>T1 Tester 1</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Tue 1/25/05</td><td>Wed 1/26/05</td></tr><tr><td>15</td><td>T2 Tester 2</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Tue 1/25/05</td><td>Wed 1/26/05</td></tr></table>   | ID             | Resource Name | Units       | Work        | Delay | Start | Finish | 14 | T1 Tester 1                | 100% | 8 hrs   | 0 days | Tue 1/25/05 | Wed 1/26/05 | 15 | T2 Tester 2 | 100% | 8 hrs  | 0 days | Tue 1/25/05 | Wed 1/26/05 |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work           | Delay         | Start       | Finish      |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 14 | T1 Tester 1                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 8 hrs          | 0 days        | Tue 1/25/05 | Wed 1/26/05 |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 15 | T2 Tester 2                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 8 hrs          | 0 days        | Tue 1/25/05 | Wed 1/26/05 |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 62 |                                                                                   | Modify code                                                                                                                                                                                                                                                                                                                                                                           | 1.5 days       |               |             |             |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>14</td><td>T1 Tester 1</td><td>100%</td><td>12 hrs</td><td>0 days</td><td>Wed 1/26/05</td><td>Thu 1/27/05</td></tr><tr><td>15</td><td>T2 Tester 2</td><td>100%</td><td>12 hrs</td><td>0 days</td><td>Wed 1/26/05</td><td>Thu 1/27/05</td></tr></table> | ID             | Resource Name | Units       | Work        | Delay | Start | Finish | 14 | T1 Tester 1                | 100% | 12 hrs  | 0 days | Wed 1/26/05 | Thu 1/27/05 | 15 | T2 Tester 2 | 100% | 12 hrs | 0 days | Wed 1/26/05 | Thu 1/27/05 |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work           | Delay         | Start       | Finish      |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 14 | T1 Tester 1                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 12 hrs         | 0 days        | Wed 1/26/05 | Thu 1/27/05 |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 15 | T2 Tester 2                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 12 hrs         | 0 days        | Wed 1/26/05 | Thu 1/27/05 |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 63 |                                                                                   | Re-test modified code                                                                                                                                                                                                                                                                                                                                                                 | 1 day          |               |             |             |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>14</td><td>T1 Tester 1</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Fri 1/28/05</td><td>Fri 1/28/05</td></tr><tr><td>15</td><td>T2 Tester 2</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Fri 1/28/05</td><td>Fri 1/28/05</td></tr></table>   | ID             | Resource Name | Units       | Work        | Delay | Start | Finish | 14 | T1 Tester 1                | 100% | 8 hrs   | 0 days | Fri 1/28/05 | Fri 1/28/05 | 15 | T2 Tester 2 | 100% | 8 hrs  | 0 days | Fri 1/28/05 | Fri 1/28/05 |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work           | Delay         | Start       | Finish      |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 14 | T1 Tester 1                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 8 hrs          | 0 days        | Fri 1/28/05 | Fri 1/28/05 |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 15 | T2 Tester 2                                                                       | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 8 hrs          | 0 days        | Fri 1/28/05 | Fri 1/28/05 |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 64 |                                                                                   | Integration testing complete                                                                                                                                                                                                                                                                                                                                                          | 0 days         |               |             |             |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 65 |                                                                                   | Send out Survey using survey production system                                                                                                                                                                                                                                                                                                                                        | 1 day          |               |             |             |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>18</td><td>SD System Designer</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Mon 1/31/05</td><td>Mon 1/31/05</td></tr></table>                                                                                                                      | ID             | Resource Name | Units       | Work        | Delay | Start | Finish | 18 | SD System Designer         | 100% | 8 hrs   | 0 days | Mon 1/31/05 | Mon 1/31/05 |    |             |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work           | Delay         | Start       | Finish      |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 18 | SD System Designer                                                                | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 8 hrs          | 0 days        | Mon 1/31/05 | Mon 1/31/05 |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 66 |                                                                                   | Wait for survey results                                                                                                                                                                                                                                                                                                                                                               | 20 days        |               |             |             |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 67 |                                                                                   | <b>Training</b>                                                                                                                                                                                                                                                                                                                                                                       | <b>71 days</b> |               |             |             |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 68 |                                                                                   | Develop training specifications for data operations personnel                                                                                                                                                                                                                                                                                                                         | 3 days         |               |             |             |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>16</td><td>TDS Training/Documentation</td><td>100%</td><td>24 hrs</td><td>0 days</td><td>Thu 1/6/05</td><td>Tue 1/11/05</td></tr></table>                                                                                                              | ID             | Resource Name | Units       | Work        | Delay | Start | Finish | 16 | TDS Training/Documentation | 100% | 24 hrs  | 0 days | Thu 1/6/05  | Tue 1/11/05 |    |             |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work           | Delay         | Start       | Finish      |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 16 | TDS Training/Documentation                                                        | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 24 hrs         | 0 days        | Thu 1/6/05  | Tue 1/11/05 |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 69 |                                                                                   | Develop training specifications for helpdesk support staff                                                                                                                                                                                                                                                                                                                            | 3 days         |               |             |             |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>16</td><td>TDS Training/Documentation</td><td>100%</td><td>24 hrs</td><td>0 days</td><td>Wed 2/2/05</td><td>Fri 2/4/05</td></tr></table>                                                                                                               | ID             | Resource Name | Units       | Work        | Delay | Start | Finish | 16 | TDS Training/Documentation | 100% | 24 hrs  | 0 days | Wed 2/2/05  | Fri 2/4/05  |    |             |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work           | Delay         | Start       | Finish      |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 16 | TDS Training/Documentation                                                        | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 24 hrs         | 0 days        | Wed 2/2/05  | Fri 2/4/05  |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 70 |                                                                                   | Identify training delivery methodology (computer based training, classroom                                                                                                                                                                                                                                                                                                            | 2 days         |               |             |             |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>16</td><td>TDS Training/Documentation</td><td>100%</td><td>16 hrs</td><td>0 days</td><td>Mon 2/7/05</td><td>Tue 2/8/05</td></tr></table>                                                                                                               | ID             | Resource Name | Units       | Work        | Delay | Start | Finish | 16 | TDS Training/Documentation | 100% | 16 hrs  | 0 days | Mon 2/7/05  | Tue 2/8/05  |    |             |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work           | Delay         | Start       | Finish      |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 16 | TDS Training/Documentation                                                        | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 16 hrs         | 0 days        | Mon 2/7/05  | Tue 2/8/05  |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 71 |                                                                                   | Develop training materials                                                                                                                                                                                                                                                                                                                                                            | 3 wks          |               |             |             |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>16</td><td>TDS Training/Documentation</td><td>100%</td><td>120 hrs</td><td>0 days</td><td>Wed 2/9/05</td><td>Tue 3/1/05</td></tr></table>                                                                                                              | ID             | Resource Name | Units       | Work        | Delay | Start | Finish | 16 | TDS Training/Documentation | 100% | 120 hrs | 0 days | Wed 2/9/05  | Tue 3/1/05  |    |             |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work           | Delay         | Start       | Finish      |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 16 | TDS Training/Documentation                                                        | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 120 hrs        | 0 days        | Wed 2/9/05  | Tue 3/1/05  |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 72 |                                                                                   | Conduct training usability study                                                                                                                                                                                                                                                                                                                                                      | 4 days         |               |             |             |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>16</td><td>TDS Training/Documentation</td><td>100%</td><td>32 hrs</td><td>0 days</td><td>Mon 3/28/05</td><td>Thu 3/31/05</td></tr></table>                                                                                                             | ID             | Resource Name | Units       | Work        | Delay | Start | Finish | 16 | TDS Training/Documentation | 100% | 32 hrs  | 0 days | Mon 3/28/05 | Thu 3/31/05 |    |             |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work           | Delay         | Start       | Finish      |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 16 | TDS Training/Documentation                                                        | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 32 hrs         | 0 days        | Mon 3/28/05 | Thu 3/31/05 |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 73 |                                                                                   | Finalize training materials                                                                                                                                                                                                                                                                                                                                                           | 3 days         |               |             |             |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>16</td><td>TDS Training/Documentation</td><td>100%</td><td>24 hrs</td><td>0 days</td><td>Fri 4/1/05</td><td>Tue 4/5/05</td></tr></table>                                                                                                               | ID             | Resource Name | Units       | Work        | Delay | Start | Finish | 16 | TDS Training/Documentation | 100% | 24 hrs  | 0 days | Fri 4/1/05  | Tue 4/5/05  |    |             |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work           | Delay         | Start       | Finish      |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 16 | TDS Training/Documentation                                                        | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 24 hrs         | 0 days        | Fri 4/1/05  | Tue 4/5/05  |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 74 |                                                                                   | Develop training delivery mechanism                                                                                                                                                                                                                                                                                                                                                   | 2 days         |               |             |             |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>16</td><td>TDS Training/Documentation</td><td>100%</td><td>16 hrs</td><td>0 days</td><td>Wed 4/13/05</td><td>Thu 4/14/05</td></tr></table>                                                                                                             | ID             | Resource Name | Units       | Work        | Delay | Start | Finish | 16 | TDS Training/Documentation | 100% | 16 hrs  | 0 days | Wed 4/13/05 | Thu 4/14/05 |    |             |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work           | Delay         | Start       | Finish      |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 16 | TDS Training/Documentation                                                        | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 16 hrs         | 0 days        | Wed 4/13/05 | Thu 4/14/05 |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 75 |                                                                                   | Training materials complete                                                                                                                                                                                                                                                                                                                                                           | 0 days         |               |             |             |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 76 |                                                                                   | <b>Documentation</b>                                                                                                                                                                                                                                                                                                                                                                  | <b>76 days</b> |               |             |             |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 77 |                                                                                   | Develop Help specification                                                                                                                                                                                                                                                                                                                                                            | 1 day          |               |             |             |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
|    |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>16</td><td>TDS Training/Documentation</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Wed 1/5/05</td><td>Wed 1/5/05</td></tr></table>                                                                                                                | ID             | Resource Name | Units       | Work        | Delay | Start | Finish | 16 | TDS Training/Documentation | 100% | 8 hrs   | 0 days | Wed 1/5/05  | Wed 1/5/05  |    |             |      |        |        |             |             |  |
| ID | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                 | Work           | Delay         | Start       | Finish      |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |
| 16 | TDS Training/Documentation                                                        | 100%                                                                                                                                                                                                                                                                                                                                                                                  | 8 hrs          | 0 days        | Wed 1/5/05  | Wed 1/5/05  |       |       |        |    |                            |      |         |        |             |             |    |             |      |        |        |             |             |  |

| ID |  | Task Name                                            |                            |              |             |              |              | Duration      |
|----|-----------------------------------------------------------------------------------|------------------------------------------------------|----------------------------|--------------|-------------|--------------|--------------|---------------|
| 78 |                                                                                   | Develop Help system                                  |                            |              |             |              |              | 3 wks         |
|    |                                                                                   | <i>ID</i>                                            | <i>Resource Name</i>       | <i>Units</i> | <i>Work</i> | <i>Delay</i> | <i>Start</i> | <i>Finish</i> |
|    |                                                                                   | 16                                                   | TDS Training/Documentation | 100%         | 120 hrs     | 0 days       | Wed 1/12/05  | Tue 2/1/05    |
| 79 |                                                                                   | Review Help documentation                            |                            |              |             |              |              | 3 days        |
|    |                                                                                   | <i>ID</i>                                            | <i>Resource Name</i>       | <i>Units</i> | <i>Work</i> | <i>Delay</i> | <i>Start</i> | <i>Finish</i> |
|    |                                                                                   | 16                                                   | TDS Training/Documentation | 100%         | 24 hrs      | 0 days       | Wed 3/23/05  | Fri 3/25/05   |
| 80 |                                                                                   | Incorporate Help documentation feedback              |                            |              |             |              |              | 2 days        |
|    |                                                                                   | <i>ID</i>                                            | <i>Resource Name</i>       | <i>Units</i> | <i>Work</i> | <i>Delay</i> | <i>Start</i> | <i>Finish</i> |
|    |                                                                                   | 16                                                   | TDS Training/Documentation | 100%         | 16 hrs      | 0 days       | Mon 4/11/05  | Tue 4/12/05   |
| 81 |                                                                                   | Develop user manuals specifications                  |                            |              |             |              |              | 2 days        |
|    |                                                                                   | <i>ID</i>                                            | <i>Resource Name</i>       | <i>Units</i> | <i>Work</i> | <i>Delay</i> | <i>Start</i> | <i>Finish</i> |
|    |                                                                                   | 16                                                   | TDS Training/Documentation | 100%         | 16 hrs      | 0 days       | Mon 1/3/05   | Tue 1/4/05    |
| 82 |                                                                                   | Develop user manuals                                 |                            |              |             |              |              | 3 wks         |
|    |                                                                                   | <i>ID</i>                                            | <i>Resource Name</i>       | <i>Units</i> | <i>Work</i> | <i>Delay</i> | <i>Start</i> | <i>Finish</i> |
|    |                                                                                   | 16                                                   | TDS Training/Documentation | 100%         | 120 hrs     | 0 days       | Wed 3/2/05   | Tue 3/22/05   |
| 83 |                                                                                   | Review all user documentation                        |                            |              |             |              |              | 2 days        |
|    |                                                                                   | <i>ID</i>                                            | <i>Resource Name</i>       | <i>Units</i> | <i>Work</i> | <i>Delay</i> | <i>Start</i> | <i>Finish</i> |
|    |                                                                                   | 16                                                   | TDS Training/Documentation | 100%         | 16 hrs      | 0 days       | Wed 4/6/05   | Thu 4/7/05    |
| 84 |                                                                                   | Incorporate user documentation feedback              |                            |              |             |              |              | 2 days        |
|    |                                                                                   | <i>ID</i>                                            | <i>Resource Name</i>       | <i>Units</i> | <i>Work</i> | <i>Delay</i> | <i>Start</i> | <i>Finish</i> |
|    |                                                                                   | 16                                                   | TDS Training/Documentation | 100%         | 16 hrs      | 0 days       | Fri 4/15/05  | Mon 4/18/05   |
| 85 |                                                                                   | Documentation complete                               |                            |              |             |              |              | 0 days        |
| 86 |                                                                                   | Process survey results with survey processing system |                            |              |             |              |              | 3.33 days     |
|    |                                                                                   | <i>ID</i>                                            | <i>Resource Name</i>       | <i>Units</i> | <i>Work</i> | <i>Delay</i> | <i>Start</i> | <i>Finish</i> |
|    |                                                                                   | 10                                                   | A1 Analyst 1               | 100%         | 26.67 hrs   | 0 days       | Tue 4/19/05  | Fri 4/22/05   |
|    |                                                                                   | 12                                                   | P1Programmer 1             | 100%         | 26.67 hrs   | 0 days       | Tue 4/19/05  | Fri 4/22/05   |
|    |                                                                                   | 14                                                   | T1 Tester 1                | 100%         | 26.67 hrs   | 0 days       | Tue 4/19/05  | Fri 4/22/05   |
| 87 |                                                                                   | Pilot                                                |                            |              |             |              |              | 9 days        |
| 88 |                                                                                   | Identify test group                                  |                            |              |             |              |              | 1 day         |
|    |                                                                                   | <i>ID</i>                                            | <i>Resource Name</i>       | <i>Units</i> | <i>Work</i> | <i>Delay</i> | <i>Start</i> | <i>Finish</i> |
|    |                                                                                   | 3                                                    | Project manager            | 100%         | 8 hrs       | 0 days       | Fri 4/22/05  | Mon 4/25/05   |
| 89 |                                                                                   | Develop software delivery mechanism                  |                            |              |             |              |              | 1 day         |
|    |                                                                                   | <i>ID</i>                                            | <i>Resource Name</i>       | <i>Units</i> | <i>Work</i> | <i>Delay</i> | <i>Start</i> | <i>Finish</i> |
|    |                                                                                   | 13                                                   | P2 Programmer 2            | 100%         | 8 hrs       | 0 days       | Mon 4/25/05  | Tue 4/26/05   |
| 90 |                                                                                   | Install/deploy software                              |                            |              |             |              |              | 1 day         |
|    |                                                                                   | <i>ID</i>                                            | <i>Resource Name</i>       | <i>Units</i> | <i>Work</i> | <i>Delay</i> | <i>Start</i> | <i>Finish</i> |
|    |                                                                                   | 13                                                   | P2 Programmer 2            | 100%         | 8 hrs       | 0 days       | Tue 4/26/05  | Wed 4/27/05   |
| 91 |                                                                                   | Obtain user feedback                                 |                            |              |             |              |              | 1 wk          |
|    |                                                                                   | <i>ID</i>                                            | <i>Resource Name</i>       | <i>Units</i> | <i>Work</i> | <i>Delay</i> | <i>Start</i> | <i>Finish</i> |
|    |                                                                                   | 3                                                    | Project manager            | 100%         | 40 hrs      | 0 days       | Wed 4/27/05  | Wed 5/4/05    |
| 92 |                                                                                   | Evaluate testing information                         |                            |              |             |              |              | 1 day         |
|    |                                                                                   | <i>ID</i>                                            | <i>Resource Name</i>       | <i>Units</i> | <i>Work</i> | <i>Delay</i> | <i>Start</i> | <i>Finish</i> |
|    |                                                                                   | 3                                                    | Project manager            | 100%         | 8 hrs       | 0 days       | Wed 5/4/05   | Thu 5/5/05    |
| 93 |                                                                                   | Pilot complete                                       |                            |              |             |              |              | 0 days        |
| 94 |                                                                                   | Deployment                                           |                            |              |             |              |              | 5 days        |
| 95 |                                                                                   | Determine final deployment strategy                  |                            |              |             |              |              | 1 day         |
|    |                                                                                   | <i>ID</i>                                            | <i>Resource Name</i>       | <i>Units</i> | <i>Work</i> | <i>Delay</i> | <i>Start</i> | <i>Finish</i> |
|    |                                                                                   | 3                                                    | Project manager            | 100%         | 8 hrs       | 0 days       | Thu 5/5/05   | Fri 5/6/05    |

| ID  |  | Task Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Duration |               |             |             |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
|-----|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------|-------------|-------------|-------|-------|--------|----|----------------------------|------|-------|--------|-------------|-------------|---|-------------------|-----|------|--------|-------------|-------------|----|--------------|-----|------|--------|-------------|-------------|----|----------------|-----|------|--------|-------------|-------------|----|-------------|-----|------|--------|-------------|-------------|----|----------------------------|-----|------|--------|-------------|-------------|----|----------------------------|-----|------|--------|-------------|-------------|----|--------------------|-----|------|--------|-------------|-------------|--|
| 96  |                                                                                   | Develop deployment methodology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1 day    |               |             |             |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
|     |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>18</td><td>SD System Designer</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Fri 5/6/05</td><td>Mon 5/9/05</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ID       | Resource Name | Units       | Work        | Delay | Start | Finish | 18 | SD System Designer         | 100% | 8 hrs | 0 days | Fri 5/6/05  | Mon 5/9/05  |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| ID  | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Work     | Delay         | Start       | Finish      |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 18  | SD System Designer                                                                | 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8 hrs    | 0 days        | Fri 5/6/05  | Mon 5/9/05  |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 97  |                                                                                   | Secure deployment resources                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 day    |               |             |             |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
|     |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>3</td><td>Project manager</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Mon 5/9/05</td><td>Tue 5/10/05</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ID       | Resource Name | Units       | Work        | Delay | Start | Finish | 3  | Project manager            | 100% | 8 hrs | 0 days | Mon 5/9/05  | Tue 5/10/05 |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| ID  | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Work     | Delay         | Start       | Finish      |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 3   | Project manager                                                                   | 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8 hrs    | 0 days        | Mon 5/9/05  | Tue 5/10/05 |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 98  |                                                                                   | Train support staff                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 day    |               |             |             |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
|     |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>16</td><td>TDS Training/Documentation</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Tue 5/10/05</td><td>Wed 5/11/05</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ID       | Resource Name | Units       | Work        | Delay | Start | Finish | 16 | TDS Training/Documentation | 100% | 8 hrs | 0 days | Tue 5/10/05 | Wed 5/11/05 |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| ID  | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Work     | Delay         | Start       | Finish      |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 16  | TDS Training/Documentation                                                        | 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8 hrs    | 0 days        | Tue 5/10/05 | Wed 5/11/05 |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 99  |                                                                                   | Deploy software                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 day    |               |             |             |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
|     |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>13</td><td>P2 Programmer 2</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Wed 5/11/05</td><td>Thu 5/12/05</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ID       | Resource Name | Units       | Work        | Delay | Start | Finish | 13 | P2 Programmer 2            | 100% | 8 hrs | 0 days | Wed 5/11/05 | Thu 5/12/05 |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| ID  | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Work     | Delay         | Start       | Finish      |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 13  | P2 Programmer 2                                                                   | 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8 hrs    | 0 days        | Wed 5/11/05 | Thu 5/12/05 |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 100 |                                                                                   | Deployment complete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0 days   |               |             |             |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 101 |                                                                                   | Post Implementation Review                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3 days   |               |             |             |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 102 |                                                                                   | Document lessons learned                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1 day    |               |             |             |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
|     |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>3</td><td>Project manager</td><td>13%</td><td>1 hr</td><td>0 days</td><td>Thu 5/12/05</td><td>Fri 5/13/05</td></tr><tr><td>9</td><td>CS Client Sponsor</td><td>13%</td><td>1 hr</td><td>0 days</td><td>Thu 5/12/05</td><td>Fri 5/13/05</td></tr><tr><td>10</td><td>A1 Analyst 1</td><td>13%</td><td>1 hr</td><td>0 days</td><td>Thu 5/12/05</td><td>Fri 5/13/05</td></tr><tr><td>12</td><td>P1Programmer 1</td><td>13%</td><td>1 hr</td><td>0 days</td><td>Thu 5/12/05</td><td>Fri 5/13/05</td></tr><tr><td>14</td><td>T1 Tester 1</td><td>13%</td><td>1 hr</td><td>0 days</td><td>Thu 5/12/05</td><td>Fri 5/13/05</td></tr><tr><td>16</td><td>TDS Training/Documentation</td><td>13%</td><td>1 hr</td><td>0 days</td><td>Thu 5/12/05</td><td>Fri 5/13/05</td></tr><tr><td>17</td><td>DBA Database Administrator</td><td>13%</td><td>1 hr</td><td>0 days</td><td>Thu 5/12/05</td><td>Fri 5/13/05</td></tr><tr><td>18</td><td>SD System Designer</td><td>13%</td><td>1 hr</td><td>0 days</td><td>Thu 5/12/05</td><td>Fri 5/13/05</td></tr></table> | ID       | Resource Name | Units       | Work        | Delay | Start | Finish | 3  | Project manager            | 13%  | 1 hr  | 0 days | Thu 5/12/05 | Fri 5/13/05 | 9 | CS Client Sponsor | 13% | 1 hr | 0 days | Thu 5/12/05 | Fri 5/13/05 | 10 | A1 Analyst 1 | 13% | 1 hr | 0 days | Thu 5/12/05 | Fri 5/13/05 | 12 | P1Programmer 1 | 13% | 1 hr | 0 days | Thu 5/12/05 | Fri 5/13/05 | 14 | T1 Tester 1 | 13% | 1 hr | 0 days | Thu 5/12/05 | Fri 5/13/05 | 16 | TDS Training/Documentation | 13% | 1 hr | 0 days | Thu 5/12/05 | Fri 5/13/05 | 17 | DBA Database Administrator | 13% | 1 hr | 0 days | Thu 5/12/05 | Fri 5/13/05 | 18 | SD System Designer | 13% | 1 hr | 0 days | Thu 5/12/05 | Fri 5/13/05 |  |
| ID  | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Work     | Delay         | Start       | Finish      |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 3   | Project manager                                                                   | 13%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 hr     | 0 days        | Thu 5/12/05 | Fri 5/13/05 |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 9   | CS Client Sponsor                                                                 | 13%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 hr     | 0 days        | Thu 5/12/05 | Fri 5/13/05 |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 10  | A1 Analyst 1                                                                      | 13%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 hr     | 0 days        | Thu 5/12/05 | Fri 5/13/05 |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 12  | P1Programmer 1                                                                    | 13%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 hr     | 0 days        | Thu 5/12/05 | Fri 5/13/05 |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 14  | T1 Tester 1                                                                       | 13%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 hr     | 0 days        | Thu 5/12/05 | Fri 5/13/05 |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 16  | TDS Training/Documentation                                                        | 13%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 hr     | 0 days        | Thu 5/12/05 | Fri 5/13/05 |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 17  | DBA Database Administrator                                                        | 13%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 hr     | 0 days        | Thu 5/12/05 | Fri 5/13/05 |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 18  | SD System Designer                                                                | 13%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 hr     | 0 days        | Thu 5/12/05 | Fri 5/13/05 |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 103 |                                                                                   | Distribute to team members                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 day    |               |             |             |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
|     |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>3</td><td>Project manager</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Fri 5/13/05</td><td>Mon 5/16/05</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ID       | Resource Name | Units       | Work        | Delay | Start | Finish | 3  | Project manager            | 100% | 8 hrs | 0 days | Fri 5/13/05 | Mon 5/16/05 |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| ID  | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Work     | Delay         | Start       | Finish      |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 3   | Project manager                                                                   | 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8 hrs    | 0 days        | Fri 5/13/05 | Mon 5/16/05 |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 104 |                                                                                   | Create software maintenance team                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 day    |               |             |             |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
|     |                                                                                   | <table><tr><th>ID</th><th>Resource Name</th><th>Units</th><th>Work</th><th>Delay</th><th>Start</th><th>Finish</th></tr><tr><td>3</td><td>Project manager</td><td>100%</td><td>8 hrs</td><td>0 days</td><td>Mon 5/16/05</td><td>Tue 5/17/05</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ID       | Resource Name | Units       | Work        | Delay | Start | Finish | 3  | Project manager            | 100% | 8 hrs | 0 days | Mon 5/16/05 | Tue 5/17/05 |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| ID  | Resource Name                                                                     | Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Work     | Delay         | Start       | Finish      |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 3   | Project manager                                                                   | 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8 hrs    | 0 days        | Mon 5/16/05 | Tue 5/17/05 |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 105 |                                                                                   | Post implementation review complete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0 days   |               |             |             |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |
| 106 |                                                                                   | Project complete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0 days   |               |             |             |       |       |        |    |                            |      |       |        |             |             |   |                   |     |      |        |             |             |    |              |     |      |        |             |             |    |                |     |      |        |             |             |    |             |     |      |        |             |             |    |                            |     |      |        |             |             |    |                            |     |      |        |             |             |    |                    |     |      |        |             |             |  |