***TEST SPECIFICATION***

**1.0 Introduction**

This section provides an overview of the entire test document. This document describes both the test plan and the test procedure.

**1.1 Goals and objectives**

Overall goals and objectives of the test process are described.

**1.2 Statement of scope**

A description of the scope of software testing is developed. Functionality/features/behavior to be tested is noted. In addition any functionality/features/behavior that is not to be tested is also noted.

**1.3 Major constraints**

Any business, product line or technical constraints that will impact the manner in which the software is to be tested are noted here.

**2.0 Test Plan**

This section describes the overall testing strategy and the project management issues that are required to properly execute effective tests.

**2.1 Software to be tested**

The software to be tested is identified by name. Exclusions are noted explicitly.

**2.2 Testing strategy**

The overall strategy for software testing is described.

**2.2.1 Unit testing**

The strategy for unit tested is described. This includes an indication of the components that will undergo unit tests or the criteria to be used to select components for unit test. Test cases are NOT included here.

**2.2.2 Integration testing**

The integration testing strategy is specified. This section includes a discussion of the order of integration by software function. Test cases are NOT included here.

**2.2.3 System testing**

The system testing strategy is specified. This section includes a discussion of the types of system tests to be conducted, the responsibility for those tests. Test cases are NOT included here.

**2.3 Testing tools and environment**

A description of the test environment, including tools, simulators, specialized hardware, test files, and other resources is presented here.

**2.4 Test schedule**

A detailed schedule for unit, integration, and system testing as well as high order tests is described.

**3.0 Test Procedure**

This section describes as detailed test procedure including test tactics and test cases for the software.

**3.1 Software to be tested**

The software to be tested is identified by name. Exclusions are noted explicitly.

**3.2 Testing procedure**

The overall procedure for software testing is described.

**3.2.1 Unit test cases**

The procedure for unit testing is described for each software component (that will be unit tested) is presented. This section is repeated for all components i.

**3.2.1.1 Stubs and/or drivers for component i**

**3.2.1.2 Test cases for component i**

**3.2.2 Integration testing**

The integration testing procedure is specified.

**3.2.2.1 Testing procedure for integration**

**3.2.2.2 Stubs and drivers required**

**3.2.2.3 Test cases**

**3.2.3 System Testing**

The system testing procedure is specified. For each of the system tests specified below, the test procedure, test cases, purpose, specialized requirements and pass/fail criteria are specified.

**3.2.3.1 Test cases**

**3.2.3.2 Security testing**

**3.2.3.3 Performance testing**

**3.3 Test record keeping and test log**

Mechanisms for storing and evaluating test results are specified. The test log is used to maintain a chronological record of all tests and their results.