

## OASIS-CC Y2K COMPLIANCE TEST PLAN

This document describes the tests and analysis that are to be conducted to verify that OASIS-CC is Y2K compliant. The tests will be conducted with the current version of the software and will be repeated after corrections are implemented

### 1 – EXECUTION THROUGH ROLLOVER DATES AND SUSTAINED OPERATIONS AFTER YEAR 2000

The purpose of these tests is to verify that OASIS-CC executes properly when the time goes from 1999 to 2000. They verify that OASIS-CC continues to acquire, process and display data. In addition, these tests check the proper execution of CSTOL statements that contain absolute (a.k.a., clock time) and delta time specifications. Data and event messages recorded during these tests are examined to insure the consistency of the recorded files.

The same tests are conducted using two other high risks time ranges: 2000/01 to 2000/02 and 2000/59 to 2000/60.

TEST 1.1 - This test verifies data acquisition, data processing, data visualization and the execution of absolute-time wait with time after 2000/01-00:00:00.0

TEST 1.2 - This test verifies data acquisition, data processing, data visualization and the execution of delta-time waits initiated before 1999/365-23:59:59.0 and expiring after 2000/01-00:00:00.0

TEST 1.3 - This test verifies the generation of bridges files that contain time specifications.

TEST 1.4 – This test verifies that OASIS-CC operates properly after year 2000.

### 2 - RETRIEVAL OF DATA ACQUIRED ACROSS THE CENTURY BOUNDARY

TEST 2.1 - This test verifies that recorded data can be retrieved when the retrieval start time is before 1999/365-23:59:59.0 and the end time is after 2000/01-00:00:00.0

TEST 2.2 - This test verifies that data recorded across the century boundary can be retrieved when the retrieval start and end times are both after 2000/01-00:00:00.0

### 3 - INTERPRETATION OF TWO-DIGIT YEAR FIELDS

TEST 3.1 - In this test, absolute times are specified using two digits (or less) for the year. For example: /01-00:00:00.0, 98/01-00:00:00.0, 00/01-00:00:00.0, 01/01-00:00:00.0.

### 4 - VERIFICATION BY ANALYSIS

Numerous CSTOL statements contain absolute time specifications or delta-time specifications. For these statements, and in addition to the tests defined in the

preceding paragraphs, Y2K compliance is also verified by analysis of the OASIS-CC code. These statements are:

HOLD command specification UNTIL clock time

HOLD message specification UNTIL clock time

RETRIEVE stream FROM filename BEGINNING clock time UNTIL clock time

WAIT clock time

WAIT delta time

WAIT logical expression OR UNTIL clock time

WAIT logical expression OR FOR delta time