# CCD\_CRUISE\_PKG Package Testing Documentation

## Overview:

The CCD\_CRUISE\_PKG was developed to provide functions and stored procedures to work with the Centralized Cruise Database (CCD). The stored procedures perform record operations on the database and the functions translate primary key values and return calculated values for the [Cruise Data Management Application (CRDMA) Documentation](../../../CRDMA/docs/Cruise%20Data%20Management%20Application%20-%20Technical%20Documentation.docx). This document defines how the formal test cases are defined and evaluated.

## Resources:

* [Database Documentation](../../Centralized%20Cruise%20Database%20-%20Technical%20Documentation.docx)
* [PL/SQL Coding Conventions](../../Centralized%20Cruise%20Database%20-%20PLSQL%20Coding%20Conventions.docx)
* [CRDMA Documentation](../../../CRDMA/docs/Cruise%20Data%20Management%20Application%20-%20Technical%20Documentation.docx)
* [CCD\_CRUISE\_PKG Test Cases Spreadsheet](CCD_CRUISE_PKG%20Package%20Test%20Cases.xlsx)

## Procedures:

* DEEP\_COPY\_CRUISE\_SP
  + Defining Test Cases
    - Define the different test cases in the [CCD\_CRUISE\_PKG Test Cases spreadsheet](CCD_CRUISE_PKG%20Package%20Test%20Cases.xlsx) by adding rows to the spreadsheet and defining the attributes for the given test case including the cruise name and expected result
    - Use the [Cruise\_Leg\_DDL\_DML\_generator spreadsheet](../../Cruise_Leg_DDL_DML_generator.xlsx) to generate the DML statements necessary to load the test cases into the database and export them to the [load\_test\_ref\_data.sql](SQL/load_test_ref_data.sql) script so they can be easily loaded into the database
  + Verifying Test Cases
    - Purge the development database using the to ensure that there are no unique key issues using the [delete\_ref\_data.sql](../../../SQL/queries/delete_ref_data.sql) script
    - Load the test case data using the [load\_test\_ref\_data.sql](SQL/load_test_ref_data.sql) script
    - Execute the test cases by executing the corresponding generated script in the "PL/SQL Code" column
    - Verify each test case by checking the DB\_LOG\_ENTRIES\_V view after each PL/SQL script execution. The latest record should match the value in the "Expected Result" column value.
    - Verify the cases where "Error Exists?" is "Y" using the [test\_case\_verification\_queries.sql](SQL/test_case_verification_queries.sql) script and defining the "Cruise Name" column value at runtime for the :CRUISE\_NAME bind variable
      * Confirm that the value of the "VALUES\_EQUAL\_YN" column is "Y" for all returned rows, if so the test case has been successfully verified
* Functions
  + Defining Test Cases
    - TBD
  + Verifying Test Cases
    - TBD