# Cruise Data Management Application Testing Documentation

## Overview:

The Cruise Data Management Application (CRDMA) has a series of tests on each of the application pages to confirm that they all function as expected before deploying the application for formal testing/production use. These test cases are intended to be executed in addition to module test cases provided in the [Resources](#_Resources:) section.

## Resources:

* [CRDMA CCD Oracle Package Testing](../../docs/test%20cases/CCD_CRUISE_PKG/CCD_CRUISE_PKG%20Package%20Testing%20Documentation.docx)
* [CRDMA QA Testing](test_cases/CRDMA%20QA%20Testing%20Documentation.docx)

## Test Cases:

* Page 1
  + Confirmed that the charts and report table contents are rendered correctly
  + Confirmed that the chart functionality is working properly
    - Clicking on a given Fiscal Year Summary's fiscal year will forward the user page to Page 10 with the selected fiscal year selected
    - Clicking on a given Survey Name Summary's Survey Name will forward the user page to Page 20 with the selected Survey Name selected
* Page 10
  + Confirmed that the charts and report table contents are rendered correctly
  + Confirmed that the select field filtering is working properly
    - Confirmed that select field help text is working properly
* Page 20
  + Confirmed that the charts and report table contents are rendered correctly
  + Confirmed that the select field filtering is working properly
    - Confirmed that select field help text is working properly
* Page 210
  + Confirmed that only authorized users can access this page
    - Logout in new browser tab and reload page
    - Update user group to [remove the DATA\_ADMIN role](#data_admin) and reload page
  + Confirmed that the report functionality is working properly
    - Confirm that the report table contents are rendered correctly
    - Confirm help text on report table column headings work properly
    - Confirm the Create Button opens the View/Edit Cruise Form to allow a new Cruise record to be created
    - Confirm that the Edit link opens the View/Edit Cruise Form with the selected Cruise
    - Confirm that the Copy link opens the View/Edit Cruise Form with the copied cruise information and cruise attributes pre-populated with the copied Cruise's information
* Page 220
  + Confirmed that only authorized users can access this page
    - Logout in new browser tab and reload page
    - Update user group to [remove the DATA\_ADMIN role](#data_admin) and reload page
  + Confirmed that unauthorized users cannot save changes to the database
    - Update user group to [remove the DATA\_ADMIN role](#data_admin) and then click the Create/Create Another/Apply Changes buttons
    - Logout in new browser tab and click the Create/Create Another/Apply Changes buttons (session has expired error)
  + View/Edit Cruise Form
    - Confirm the tab tooltips are working properly
    - Data Form
      * Confirm form field tooltips are working properly
      * Confirm the select field filtering checkbox works properly
      * Data Model QA:
        + Confirm required fields
        + Confirm unique keys
    - Confirm the different attribute presets (e.g. ESA Target Species) work properly
      * Confirm the attribute filtering checkboxes work properly
    - Confirm the Target Species - Other Species interactive grid works properly
      * Confirm the tooltips are working properly
    - New Cruise
      * Confirm "Cruise Summary", and "QC Validation Issues", and "Cruise Legs" tabs are not visible
      * Copy Cruise Functionality:
        + Confirm the copied cruise information is displayed in the form and the cruise attribute information is also populated
      * New Cruise Functionality:
        + Confirm the cruise form has no values are pre-populated except for "Survey Type" (NMFS Survey)
      * Confirm "Create Another" button will clear the form and allow another cruise to be created
        + Confirm the cruise and attributes were saved successfully
        + Confirm QC Validation Issues are added (if any warnings)
      * Confirm "Create" button will reload the page with the new cruise selected
        + Confirm the cruise and attributes were saved successfully
        + Confirm QC Validation Issues are added (if any warnings)
    - Selected Cruise:
      * Confirm "Cruise Summary", and "QC Validation Issues", and "Cruise Legs" tabs are visible
      * Cruise Summary
        + Confirm the cruise summary information is displayed
      * QC Validation Issues
        + Confirm the QC validation issues are displayed properly
        + Confirm the tooltips work properly
        + Confirm the "Inspect" link forwards the user to the appropriate View/Edit Cruise or Cruise Leg page for the given validation issue
        + Confirm the issues can be annotated (Issue Resolution and Error Notes only) and saved when the "Apply Changes" button is clicked
      * Cruise Legs
        + Confirm the report contents are rendered correctly
        + Confirm the tooltips work properly
        + Create Button

Confirm the user is forwarded to the View/Edit Cruise Leg form for the selected cruise and no values are pre-populated

* + - * + Edit Leg

Confirm that the Edit link opens the View/Edit Cruise Leg Form with the selected Leg

* + - * + Copy Leg

Confirm that the Copy link opens the View/Edit Cruise Leg Form with the copied leg information and leg attributes pre-populated with the copied leg's information

* + - * Update Cruise
        + Confirm the cruise and attributes can be saved successfully

Confirm QC Validation Issues are updated

* + - * Delete Cruise
        + Confirm the deletion works properly if there are no related record (cruise record only)

Confirm the deletion works properly if there are attributes associated with the cruise leg and the field options are de-selected and the delete button is clicked

* + - * + Confirm the deletion fails if there are related records (leg or cruise attributes)
        + Confirmed that unauthorized users cannot commit changes to the database

Update user group to [remove the DATA\_ADMIN role](#data_admin) and then click the Delete button

Logout in new browser tab and click Delete button (session has expired error)

* + - * Deep Copy
        + Confirm the tooltip is working properly
        + Consult [CCD\_CRUISE\_PKG Testing](file:///C:\Users\Jesse.Abdul\Documents\Version%20Control\Git\centralized-cruise-database\docs\test%20cases\CCD_CRUISE_PKG\CCD_CRUISE_PKG%20Package%20Testing%20Documentation.docx) for testing SOP for the "Deep Copy" functionality
* Page 230
  + Confirmed that if there is no CRUISE\_ID argument then the page shows a warning
  + Confirmed that only authorized users can access this page
    - Logout in new browser tab and reload page
    - Update user group to [remove the DATA\_ADMIN role](#data_admin) and reload page
  + Confirmed that unauthorized users cannot save changes to the database
    - Update user group to [remove the DATA\_ADMIN role](#data_admin) and then click the Create/Create Another/Apply Changes buttons
    - Logout in new browser tab and click the Create/Create Another/Apply Changes buttons (session has expired error)
  + View/Edit Cruise Leg Form
    - Cruise Legs
      * Confirm that the report is rendered successfully
      * Confirm that the tooltips are working
      * Confirm Copy link is working
      * Confirm Edit link is working
    - Confirm the tab tooltips are working properly
    - Data Form
      * Confirm form field tooltips are working properly
      * Confirm the select field filtering checkbox works properly
      * Data Model QA:
        + Confirm required fields
        + Confirm unique keys
    - Confirm the different attribute presets (e.g. Gear) work properly
      * Confirm the attribute filtering checkboxes work properly
    - Confirm the Leg Alias interactive grid works properly
      * Confirm the tooltips are working properly
    - New Cruise Leg
      * Copy Cruise Leg Functionality:
        + Confirm the copied cruise leg information is displayed in the form and the leg attribute information is also populated
      * New Cruise Leg Functionality:
        + Confirm the cruise leg form has no values are pre-populated
      * Confirm "Leg Summary" tab is not visible
      * Confirm "Create Another" button will clear the form and allow another cruise to be created
        + Confirm the cruise leg and attributes were saved successfully
        + Confirm QC Validation Issues are added (if any warnings)
      * Confirm "Create" button will reload the page with the new cruise selected
        + Confirm the cruise leg and attributes were saved successfully
        + Confirm QC Validation Issues are added (if any warnings)
    - Selected Cruise Leg:
      * Cruise Leg Summary
        + Confirm the cruise leg summary information is displayed
      * QC Validation Issues
        + Confirm the QC validation issues are displayed properly
        + Confirm the tooltips work properly
        + Confirm the "Inspect" link forwards the user to the appropriate View/Edit Cruise or Cruise Leg page for the given validation issue
        + Confirm the issues can be annotated (Issue Resolution and Error Notes only) and saved when the "Apply Changes" button is clicked
      * Update Cruise Leg
        + Confirm the cruise leg and attributes can be saved successfully

Confirm QC Validation Issues are updated (if any)

* + - * Delete Cruise Leg
        + Confirm the deletion works properly if there are no related record (cruise leg record only)

Confirm that the related warnings/errors are removed from cruise after deletion (if any)

* + - * + Confirm the deletion works properly if there are attributes associated with the cruise leg and the field options are de-selected and the delete button is clicked

Confirm that the related warnings/errors are removed from cruise after deletion (if any)

* + - * + Confirm the deletion fails if there are related records (leg attributes)
        + Confirmed that unauthorized users cannot commit changes to the database

Update user group to [remove the DATA\_ADMIN role](#data_admin) and then click the Delete button

Logout in new browser tab and click Delete button (session has expired error)

* Page 250
  + Confirmed that only authorized users can access this page
    - Logout in new browser tab and reload page
    - Update user group to [remove the DATA\_ADMIN role](#data_admin) and reload page
  + Confirmed that unauthorized users cannot commit changes to the database
    - Update user group to [remove the DATA\_ADMIN role](#data_admin) and then click the Save button
    - Logout in new browser tab and click Save button (session has expired error)
  + Confirmed that the report table contents are rendered correctly
    - Confirmed column heading help text is working properly
    - Confirmed that the Cruise column links redirect the user to the View/Edit Cruise page for the selected Cruise
    - Confirm the "Inspect" link forwards the user to the appropriate View/Edit Cruise or Cruise Leg page for the given validation issue
  + Confirmed that the select field filtering is working properly
    - Confirmed that select field help text is working properly
  + Apply changes for authorized user
    - Confirmed that the record(s) are updated successfully
* Pages 300 - 399 (Reference List Management Pages)
  + An [inventory](Cruise%20Data%20Management%20Application%20-%20Reference%20Preset%20Page%20Inventory.xlsx) of each page can be found on the "Reference Lists" worksheet and can be used to ensure that the test cases are confirmed on each of the CRDMA Reference List page
  + View Reference Records Report
    - Confirmed that only authorized users can access this page
      * Logout in new browser tab and reload page
      * Update user group to [remove the DATA\_ADMIN role](#data_admin) and reload page
    - Confirmed that the report table contents are rendered correctly
    - Confirmed column heading help text is working properly
    - Confirm Create button opens View/Edit Reference Record Form with no values except for default values (e.g. Divisions defaults Science Center to PIFSC)
    - Update icon opens View/Edit Reference Record Form with the values loaded
    - (When applicable) Confirm other links work properly (e.g. View Divisions page allows Science Center records to be edited by clicking on the Science Center link)
  + View/Edit Reference Record Page
    - Confirmed that only authorized users can access this page
      * Logout in new browser tab and reload page
      * Update user group to [remove the DATA\_ADMIN role](#data_admin) and reload page
    - Confirmed that unauthorized users cannot save changes to the database
      * Update user group to [remove the DATA\_ADMIN role](#data_admin) and then click the Create/Apply Changes button
      * Logout in new browser tab and click Create/Apply Changes button (session has expired error)
    - Data Form
      * Confirm tooltips are working properly
      * Data Model QA:
        + Confirm required fields are enforced
        + Confirm unique name/code value constraints are enforced
      * New Reference Record
        + Form is loaded with no values
        + Create Button

Confirm the record is saved successfully

* + - * Edit Reference Record
        + Form is loaded with selected record's values
        + Apply Changes Button

Confirm the record is updated successfully

* + - * + Delete Button

Confirm the deletion works properly if there are no related records (reference record only)

Confirm the deletion fails if there are related records (one or more related cruise/leg records)

Confirmed that unauthorized users cannot delete records from the database

Update user group to [remove the DATA\_ADMIN role](#data_admin) and then click the Delete button

Logout in new browser tab and click Delete button (session has expired error)

* Pages 300 - 399 (Reference List Preset Management Pages)
  + An [inventory](Cruise%20Data%20Management%20Application%20-%20Reference%20Preset%20Page%20Inventory.xlsx) of each page can be found on the "Presets" worksheet and can be used to ensure that the test cases are confirmed on each of the CRDMA Reference List Preset page
  + View Reference Preset Records Report
    - Confirmed that only authorized users can access this page
      * Logout in new browser tab and reload page
      * Update user group to [remove the DATA\_ADMIN role](#data_admin) and reload page
    - Confirmed that the report table contents are rendered correctly
    - Confirmed column heading help text is working properly
    - Confirm Create button opens View/Edit Reference Preset Record Form with no values
    - Update icon opens View/Edit Reference Preset Record Form with the values loaded
  + View/Edit Reference Preset Record Page
    - Confirmed that only authorized users can access this page
      * Logout in new browser tab and reload page
      * Update user group to [remove the DATA\_ADMIN role](#data_admin) and reload page
    - Confirmed that unauthorized users cannot save changes to the database
      * Update user group to [remove the DATA\_ADMIN role](#data_admin) and then click the Create/Apply Changes button
      * Logout in new browser tab and click Create/Apply Changes button (session has expired error)
    - Data Form
      * Confirm field tooltips are working
      * (When applicable) Confirm the Filter List functionality is working
      * Data Model QA:
        + Confirm required fields are enforced
        + Confirm unique name value constraints are enforced
      * New Preset Record
        + Form is loaded with no values
        + Create Button

Confirm the preset record and associated options are saved successfully

* + - * Edit Preset Record
        + Confirm delete button tooltip is working
        + Form is loaded with selected record's values
        + Apply Changes Button

Confirm the preset record and associated options were updated successfully

* + - * + Delete Button

Confirm the deletion works properly if there are no related records (preset record only)

Confirm the deletion works properly if there are options associated with the preset and the field options are de-selected and the delete button is clicked

Confirm the deletion fails if there are related records (one or more related preset options)

Confirmed that unauthorized users cannot delete records from the database

Update user group to [remove the DATA\_ADMIN role](#data_admin) and then click the Delete button

Logout in new browser tab and click Delete button (session has expired error)

* Appendix:
  + Remove/Restore DATA\_ADMIN role:
    - --to setup test

DELETE FROM AUTH\_APP\_USER\_GROUPS where app\_user\_id IN (SELECT APP\_USER\_ID FROM AUTH\_APP\_USERS WHERE APP\_USER\_NAME = :username) AND APP\_GROUP\_ID IN (SELECT APP\_GROUP\_ID FROM AUTH\_APP\_GROUPS WHERE APP\_GROUP\_CODE = 'DATA\_ADMIN');

* + - --to restore after test

INSERT INTO AUTH\_APP\_USER\_GROUPS (APP\_USER\_ID, APP\_GROUP\_ID) VALUES ((SELECT APP\_USER\_ID FROM AUTH\_APP\_USERS WHERE APP\_USER\_NAME = :username), (SELECT APP\_GROUP\_ID FROM AUTH\_APP\_GROUPS WHERE APP\_GROUP\_CODE = 'DATA\_ADMIN'));