

Test Case Volume Browser_N
for
Contract DG133W-05-CQ-1067
Advanced Weather Interactive Processing System (AWIPS)
Operations & Maintenance

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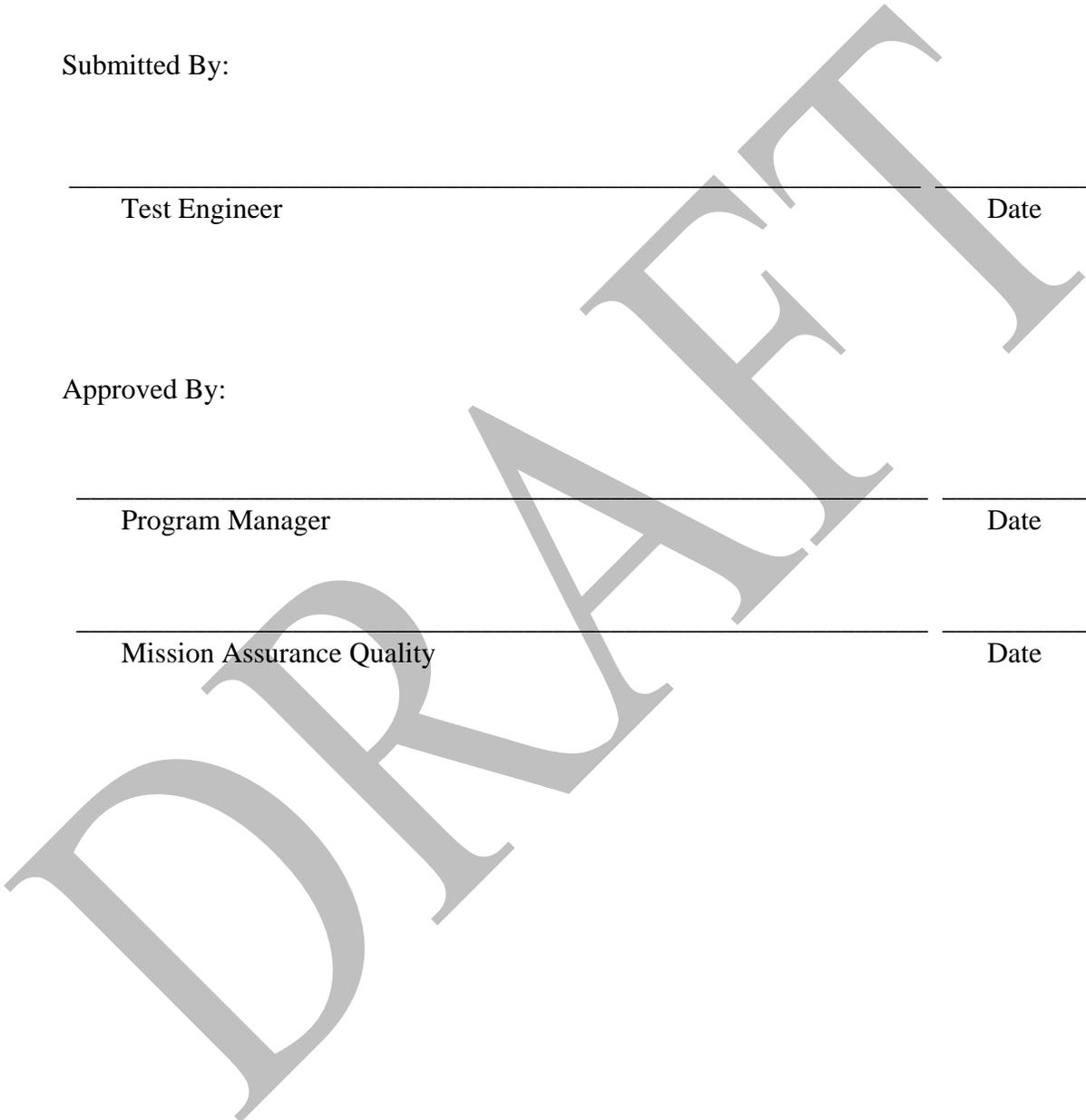
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Mission Assurance Quality Date



Change History

Revision	Date	Affected Pages	Explanation of Change
1	21 Aug. 2009	ALL	Initial Draft

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Table of Contents

	<i>Page</i>
1.0 SCOPE	1
2.0 APPLICABLE DOCUMENTS	1
2.1 Source Documents	1
2.2 Reference Documents	1
3.0 TEST CASE DESCRIPTION.....	2
3.1 Assumptions, Constraints and Preconditions.....	2
3.2 Recommended Hardware	2
3.3 Test Inputs	2
3.4 Test Outputs	2

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1.0 SCOPE

See the AWIPS II Software Test Plan.

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2.0 APPLICABLE DOCUMENTS

2.1 Source Documents

- None

2.2 Reference Documents

- Existing AWIPS I and AWIPS II test procedures.
- The Silver Spring NWS AWIPS I test bed application.

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3.0 TEST CASE DESCRIPTION

This test case demonstrates the capability of CAVE to display a representative sample of Plan View, Time Series, Time-Height, Variable vs. Height, Cross Section and Sounding model products from available numerical models. A representative sample of products is demonstrated in the following test procedures.

3.1 Assumptions, Constraints and Preconditions

- TO11 Slice 5 software has been installed successfully
- CAVE and EDEX are running
- Data has been ingested
- Actions, Results, and Requirements highlighted in gray indicate requirements and/or capabilities to be included in the scope of future delivery. They are included here for purposes of continuity and traceability with the original AWIPS I and AWIPS II test case documents.

3.2 Recommended Hardware

See AWIPS II Software Test Plan, Section 2.2.

3.3 Test Inputs

Section 4.0 contains the test procedures for this test case. Sections 2.2 – 2.9 of the AWIPS II Software Test Plan contain general test inputs applicable to all TO11 test cases.

3.4 Test Outputs

The results outlined in section 4.0 are met.

4.0 TEST SCENARIO

Step #	Action	Expected Results	Actual Results	Pass(P)/ Fail(F)	Comments
1.	Open a D-2D session.	The D-2D is opened.			
2.	Use the Scale pull-down menu (left side of toolbar) and select CONUS.	Map scale is CONUS.			
3.	From the Frames pull-down menu (right side of toolbar), select the highest number of frames 32 or 64.	Number of frames available is 32 or 64.			
4.	From the Volume menu, select Browser.	The Volume Browser window opens.			
5.	If necessary, the user may remove selected items from the Volume Browser by using the Clear options under the Edit menu. It is possible to clear all or just a Source, Field, or Plane. If a Source, Field, or Plane is cleared the products in the product list will also be cleared.	Selections are removed.			
6.	In the Volume Browser select Plan View in the display-type pull-down menu if not already selected.	The Volume Browser size and options change to reflect the Plan View product options.			

Step #	Action	Expected Results	Actual Results	Pass(P)/ Fail(F)	Comments
7.	In the Volume Browser select a Source with a green indicator from the Grid list.	Source shows up highlighted (gray) in the source selection list.			<p>Variance: The Source is highlighted gray rather than yellow.</p> <p>Variance: The available Sources have a green indicator rather than the entire Source in green text.</p>

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Step #	Action	Expected Results	Actual Results	Pass(P)/ Fail(F)	Comments
8.	<p>In the Volume Browser select a field from one of the lists (Basic, Derived, Other). Select a field with a green indicator in the menu. NOTE: Many of the submenus are without a green indicator, but there may be available fields under them to select.</p>	<p>Field shows up highlighted (gray) in the Field selection list.</p>			<p>Variance: The Field is highlighted gray rather than yellow.</p> <p>Variance: The available Fields have a green indicator rather than the entire Field in green text.</p> <p>Derived and Other Fields - Slice 6</p>
9.	<p>In the Volume Browser select a level with a green indicator from the Plane menu.</p>	<p>Plane shows up highlighted (gray) in the Plane selection list; product shows up highlighted (gray) in the Product Selection List.</p>			<p>Variance: The Plane is highlighted gray rather than yellow.</p> <p>Variance: The available Planes have a green indicator rather than the entire Plane in green text.</p>

Step #	Action	Expected Results	Actual Results	Pass(P)/ Fail(F)	Comments
10.	In the Volume Browser select the Load button at the bottom.	Product is loaded in the main pane as a graphic. It defaults to the last frame.			
11.	Close the Volume Browser: File -> Exit.	Volume Browser closes.			
12.	View all the frames (model forecast times) by using the arrow keys on the keyboard or toolbar and make sure the date displays correctly and with the right time stamp. The model data should step ever 1-3hrs for RUC, 3hrs for NAM, 6hrs for GFS and NGM.	Each variable will display as contours.	DR #867		
13.	Select clear on the D2D toolbar menu.	Product is cleared from the main pane.			
14.	Repeat steps 2-13. Load three different Sources, Fields, and Planes.	Steps 2-13 were executed successfully.			
15.	Click on the File -> Exit	The application closes and this test case is completed.			
End of test.					