

Test Case GFE Edit Areas (001-047)

**for the
AWIPS
Contract
DG133W-05-CQ-1067**

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Revision History

Revision	Date	Affected Pages	Explanation of Change
1.0	11 July 2008	ALL	Initial Draft
2.0	8 August 2008	6-51	Redlines per PDT
3.0	4 September 2008	ALL	Redlines per DT

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Table of Contents

1.0	SCOPE	4
2.0	APPLICABLE DOCUMENTS	5
2.1	Source Documents.....	5
2.2	Reference Documents.....	5
3.0	TEST CASE DESCRIPTION	6
3.1	Assumptions, Constraints and Preconditions	6
3.2	Recommended Hardware	6
3.3	Test Inputs	6
3.4	Test Outputs.....	6
3.4.1	GFE GUIs Tested.....	6
4.0	TEST SCENARIO	7
5.0	REQUIREMENTS VERIFICATION TRACEABILITY MATRIX (RVTM).....	53

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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1.0 SCOPE

See Software Test Plan.

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2.0 APPLICABLE DOCUMENTS

2.1 Source Documents

- None

2.2 Reference Documents

- Legacy NWS GFE Acceptance Test Case ID Numbers: ea001 – ea047.
- Legacy NWS GFE Test Cases for Test Areas AC – VP.
- Section 3.1.3 of the AWIPS D-2D User's Manual Build 8.1.
- Software Test Plan for the Advanced Weather Information Processing System Project, Contract #DG133W-05-CQ-1067, August 2008.
- The Silver Spring NWS AWIPS 1 test bed application.
- Release OB8.1 and OB8.2 of the Weather Event Simulator (WES).
- Rational RequisitePro.

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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3.0 TEST CASE DESCRIPTION

This test case verifies that the edit area NWS test cases.

3.1 Assumptions, Constraints and Preconditions

- Several weather elements are loaded
- There are multiple grids available for the weather elements (at minimum T, Td, Wind, Wx, and Hazards weather elements)
- TO9 software has been installed successfully
- CAVE, EDEX and pgAdmin III are running
- Data has been ingested
- There are multiple grids available for each of the weather elements
- Actions, Results, and Requirements highlighted in yellow indicate requirements and/or capabilities to be included in the scope of future task orders. They are included here for purposes of continuity and traceability with the original AWIPS I test case documents.

3.2 Recommended Hardware

See Software Test Plan.

3.3 Test Inputs

Section 4.0 below contains the test procedures for this test case. Sections 2.2 – 2.9 of the Software Test Plan contain general test inputs applicable to all TO9 test cases.

3.4 Test Outputs

The results outlined in section 4.0 are met.

3.4.1 GFE GUIs Tested

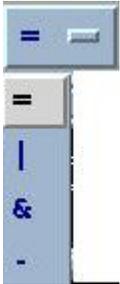
- TBD

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

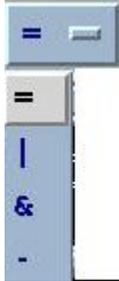
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4.0 TEST SCENARIO

Step #	Action	Result	Pass/Fail
1.	From the CAVE window, Mouse Button (MB) 1 click the 'Open Perspective' icon and select 'GFE' from the dropdown menu.	The GFE perspective displays in CAVE.	
ea001			
2.	Select Replace ('='') from the Edit Area Mode on the toolbar . 	The Replace ('='') item displays in the Edit Area Mode section on the toolbar.	
3.	Clear the edit area using the  toolbar button.	No edit areas are present on the Spatial Editor (SE).	
4.	MB1 click the Draw Edit Area Tool  , MB1 drag a closed figure whose start, end, and path is completely contained within the SE drawing area.	The edit area is created as indicated by the hatched area.	
5.	Using the Draw Edit Area Tool  , MB1 drag another closed figure whose start, end, and path is completely contained within the SE drawing area.	The previous edit area is removed and replaced with the new edit area.	
ea002			
6.	Select Union (' ') from the Edit Area Mode on the toolbar . 	The Union (' ') item displays in the Edit Area Mode section on the toolbar.	
7.	Clear the edit area using the  toolbar button.	The edit area is removed from the SE.	
8.	Using the Draw Edit Area Tool  , MB1 drag a closed figure whose start, end, and path is completely contained within the SE drawing area.	The edit area is created.	

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Step #	Action	Result	Pass/Fail
9.	Using the Draw Edit Area Tool  , MB1 drag another closed figure whose start, end, and path is completely contained within the SE drawing area.	Both edit areas remain displayed on the SE.	
ea003			
10.	Select Intersect ('&') from the Edit Area Mode on the toolbar . 	The Intersect ('&') item displays in the Edit Areas Mode section on the toolbar.	
11.	Clear the edit area using the C toolbar button.	All edit areas are removed from the SE.	
12.	Using the Draw Edit Area Tool  , MB1 drag a closed figure whose start, end, and path is completely contained within the SE drawing area.	The edit area is created (note: even though intersection should normally produce null edit area, spec defines the result to be the newly drawn edit area)	
13.	Using the Draw Edit Area Tool  , MB1 drag another closed figure whose start, end, and path is completely contained within the SE drawing area and partially intersects with the previous edit area.	The intersected portion of the edit area remains displayed on the SE.	
14.	Using the Draw Edit Area Tool  , MB1 drag another closed figure whose start, end, and path is completely contained within the SE drawing area and completely resides within the inside of the previous edit area.	The intersected portion of the edit area remains displayed on the SE.	
15.	Using the Draw Edit Area Tool  , MB1 drag another closed figure whose start, end, and path is completely contained within the SE drawing area and does not intersect with the previous edit area	The edit area is null, i.e., not defined. No edit area displays on the SE.	

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Step #	Action	Result	Pass/Fail
ea004			
16.	Select Union (‘ ’) from the Edit Area Mode on the toolbar . 	The Union (‘ ’) item displays in the Edit Area Mode section on the toolbar.	
17.	Clear the edit area using the C toolbar button.	No edit areas are present on the Spatial Editor (SE).	
18.	Toggle the edit area using the T toolbar button.	The entire grid domain is the edit area.	
19.	Clear the edit area using the C toolbar button.	The edit area is removed from the SE.	
20.	Using the Draw Edit Area Tool  , MB1 drag a closed figure whose start, end, and path is completely contained within the SE drawing area.	The edit area is created.	
21.	Toggle the edit area using the T toolbar button.	This new edit area is the complement of the edit area that existed just before the Toggle button was selected.	
ea005			
22.	While remaining in Union (‘ ’) mode, clear the edit area using the C toolbar button.	The edit area is removed from the SE.	
23.	Clear the edit area using the C toolbar button.	The edit area remains cleared.	
24.	Using the Draw Edit Area Tool  , MB1 drag a closed figure whose start, end, and path is completely contained within the SE drawing area.	The edit area is created.	
25.	Clear the edit area using the C toolbar button.	The edit area is removed from the SE.	

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Step #	Action	Result	Pass/Fail
ea006			
26.	Select Replace ('='') from the Edit Area Mode on the  toolbar.	The Replace ('='') item displays in the Edit Area Mode section on the toolbar.	
27.	Clear the edit area using the  toolbar button.	No edit areas are present on the SE.	
28.	Clear the edit area using the  toolbar button.	The SE remains cleared of edit areas.	
29.	Using the Draw Edit Area Tool  , MB1 drag an open figure in the SE window.	The start and end points of the figure close. The interior of the area is the edit area.	
30.	Using the Draw Edit Area Tool  , MB1 drag a figure which intersects itself (such as a figure '8').	Both or all enclosed areas become the edit areas (i.e., both loops of a figure 8).	
31.	Using the Draw Edit Area Tool  , MB1 drag a curve that begins in the SE office domain and ends out of the SE office domain.	Imagine the end point being drawn back to the starting point to form a closed area. All areas within the drawn area become the edit area. The edit area is contained only within the SE office domain.	
32.	Using the Draw Edit Area Tool  , MB1 drag a curve that begins outside of the SE office domain and then enters the SE office domain.	Imagine the end point being drawn back to the starting point to form a closed area. All areas within the drawn area become the edit area. The edit area is contained only within the SE office domain.	
33.	Using the Draw Edit Area Tool  , MB1 drag a curve that begins in the SE office domain, continues outside of the office domain, and then re-enters the SE office domain.	Imagine the end point being drawn back to the starting point to form a closed area. All areas within the drawn area become the edit area. The edit area is contained only within the SE office domain.	
ea007			
34.	While remaining in Replace ('='') mode, clear the edit area using the  toolbar button.	The edit area is removed from the SE.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
35.	MB1 click on a SCALAR (e.g., ‘T’) grid in the Grid Manager.	The grid displays in the SE.	
36.	Over a gridpoint in the SE (for which homogenous values exist in adjacent gridpoints), bring up the MB3 popup menu and select ‘ Select Homogenous Area ’.	The edit area (gridpoints whose values are within a delta (fuzz value) forms a contiguous area with the selected gridpoint) is created. The fuzz value can be determined by the MB3 popup menu on the colorbar in the SE , which brings up the Fuzz Value dialog .	
37.	Over a gridpoint within the edit area, bring up the MB3 popup menu and select ‘ Deselect Contiguous Area ’	The edit area is removed from SE.	
38.	MB1 click on a VECTOR (e.g., ‘Wind’) grid in the Grid Manager.	The grid displays in the SE.	
39.	Over a gridpoint in the SE (for which homogenous values exist in adjacent gridpoints), bring up the MB3 popup menu and select ‘ Select Homogenous Area ’.	The edit area (gridpoints whose values are within a delta (fuzz value) forms a contiguous area with the selected gridpoint) is created. The fuzz value can be determined by the MB3 popup menu in the SE , which brings up the Fuzz Value dialog .	
40.	Over a gridpoint within the edit area, bring up the MB3 popup menu and select ‘ Deselect Contiguous Area ’.	The edit area is removed from SE.	
41.	MB1 click on a WEATHER (e.g., ‘Wx’) grid in the Grid Manager.	The grid displays in the SE.	
42.	Over a gridpoint in the SE (for which homogenous values exist in adjacent gridpoints), bring up the MB3 popup menu and select ‘ Select Homogenous Area ’.	The edit area (gridpoints whose values are identical and forms a contiguous area with the selected gridpoint) is created. Note that there is no Fuzz Value for WEATHER.	
43.	Over a gridpoint within the edit area, bring up the MB3 popup menu and select ‘ Deselect Contiguous Area ’.	The edit area is removed from the SE.	
44.	MB1 click on a DISCRETE (e.g., ‘Hazards’) grid in the Grid Manager.	The grid displays in the SE.	
45.	Over a gridpoint in the SE (for which homogenous values exist in adjacent gridpoints), bring up the MB3 popup menu and select ‘ Select Homogenous Area .’	The edit area (gridpoints whose values are identical and forms a contiguous area with the selected gridpoint) is created. Note that there is no Fuzz Value for DISCRETE.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
46.	Over a gridpoint within the edit area, bring up the MB3 popup menu and select ' Deselect Contiguous Area '	The edit area is removed from the SE.	
ea008			
47.	Select Union (' ') from the Edit Area Mode  on the toolbar .	The Union (' ') item displays in the Edit Area Mode section on the toolbar.	DR #1387
48.	Clear the edit area using the  toolbar button.	No edit areas are present on the Spatial Editor (SE).	
49.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears.	
50.	MB1 click on a SCALAR (e.g., 'T') grid in the Grid Manager.	The grid displays in the SE.	
51.	Over a gridpoint in the SE (for which homogenous values exist in adjacent gridpoints), bring up the MB3 popup menu and select ' Select Homogenous Area '.	The edit area (gridpoints whose values are within a delta (fuzz value) forms a contiguous area with the selected gridpoint) is created, and that area is unionized with the previously drawn area. The fuzz value can be determined by the MB3 popup menu in the SE , which brings up the Fuzz Value dialog .	
52.	Over a gridpoint within an edit area, bring up the MB3 popup menu and select ' Deselect Contiguous Area '	The entire edit area (containing the gridpoint) is removed from the SE.	
53.	MB1 click on a VECTOR (e.g., 'Wind') grid in the Grid Manager.	The grid displays in the SE.	
54.	Clear the edit area using the  toolbar button.	The edit area clears.	
55.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears.	

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Step #	Action	Result	Pass/Fail
56.	Over a gridpoint in the SE (for which homogenous values exist in adjacent gridpoints), bring up the MB3 popup menu and select ' Select Homogenous Area '.	The edit area (gridpoints whose values are within a delta (fuzz value) forms a contiguous area with the selected gridpoint) is created unionized with the previous edit area. The fuzz value can be determined by the MB3 popup menu in the SE , which brings up the Fuzz Value dialog .	
57.	Over a gridpoint within the edit area, bring up the MB3 popup menu and select ' Deselect Contiguous Area '	The entire edit area (containing the gridpoint) is removed from SE.	
58.	MB1 click on a WEATHER (e.g., 'Wx') grid in the Grid Manager.	The grid displays in the SE.	
59.	Clear the edit area using the  toolbar button.	The edit area clears.	
60.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears.	
61.	Over a gridpoint in the SE (for which homogenous values exist in adjacent gridpoints), bring up the MB3 popup menu and select ' Select Homogenous Area '.	The edit area (gridpoints whose values are identical and forms a contiguous area with the selected gridpoint) is created unionized with the previous edit area. Note that there is no Fuzz Value for WEATHER.	
62.	Over a gridpoint within the edit area, bring up the MB3 popup menu and select ' Deselect Contiguous Area '	The entire edit area (containing the gridpoint) is removed from SE.	
63.	MB1 click on a DISCRETE (e.g., 'Hazards') grid in the Grid Manager.	The grid displays in the SE.	
64.	Clear the edit area using the  toolbar button.	The edit area clears.	
65.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears.	
66.	Over a gridpoint in the SE (for which homogenous values exist in adjacent gridpoints), bring up the MB3 popup menu and select ' Select Homogenous Area '.	The edit area (gridpoints whose values are identical and forms a contiguous area with the selected gridpoint) is created unionized with the previous edit area. Note that there is no Fuzz Value for DISCRETE.	

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Step #	Action	Result	Pass/Fail
67.	Over a gridpoint within the edit area, bring up the MB3 popup menu and select ' Deselect Contiguous Area '	The entire edit area (containing the gridpoint) is removed from SE.	
ea009			
68.	Select Intersect ('&') from the Edit Area Mode on the toolbar . 	The Intersect ('&') item displays in the Edit Areas Mode section on the toolbar.	DR #1387
69.	Clear the edit area using the C toolbar button.	No edit areas are present on the SE.	
70.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears.	
71.	MB1 click on a SCALAR (e.g., 'T') grid in the Grid Manager.	The grid displays in the SE.	
72.	Over a gridpoint in the SE within the area previously drawn (for which homogenous values exist in adjacent gridpoints), bring up the MB3 popup menu and select ' Select Homogenous Area '.	The edit area (gridpoints whose values are within a delta (fuzz value) forms a contiguous area with the selected gridpoint) is created, and that area is the intersection with the previously drawn area. The fuzz value can be determined by the MB3 popup menu in the SE , which brings up the Fuzz Value dialog .	
73.	Over a gridpoint within an edit area, bring up the MB3 popup menu and select ' Deselect Contiguous Area '	That edit area is removed from SE.	
74.	Clear the edit area using the C toolbar button.	The edit area clears.	
75.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears.	
76.	MB1 click on a VECTOR (e.g., 'Wind') grid in the Grid Manager.	The grid displays in the SE.	

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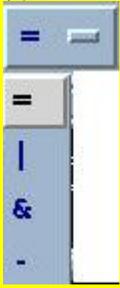
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Step #	Action	Result	Pass/Fail
77.	<p>Over a gridpoint in the SE outside of the area previously drawn (but very close to the previously drawn area, for which homogenous values exist in adjacent gridpoints), bring up the MB3 popup menu and select 'Select Homogenous Area'.</p> <p>Note: This may require several attempts to prove this step works. As an aid, complete the following steps:</p> <ul style="list-style-type: none"> - Clear the edit area completely - Try to select 'Select Homogenous Area' to see what is selected - Clear the area - MB1 drag the closed area on the SE to intersect this area - Select 'Select Homogeneous Area' in the same location as previously determined 	<p>The edit area containing gridpoints whose values are within a delta (fuzz value) of a gridpoint location form a contiguous area, and that area is intersected with the previously drawn area. If the contiguous area does not intersect the previously drawn area, the result will be no edit area. The fuzz value can be determined by the MB3 popup menu in the SE, which brings up the Fuzz Value dialog.</p>	
78.	<p>Over a gridpoint within an edit area, bring up the MB3 popup menu and select 'Deselect Contiguous Area'.</p>	<p>That edit area is removed from the SE.</p>	
ea010			
79.	<p>Select Replace ('=') from the Edit Area</p>  <p>Mode on the toolbar button.</p>	<p>The Replace ('=') item displays in the Edit Area Mode section on the toolbar.</p>	
80.	<p>Clear the edit area using the  toolbar button.</p>	<p>No edit areas are present on the SE.</p>	
81.	<p>MB1 click on a SCALAR (e.g., 'T') grid in the Grid Manager.</p>	<p>The grid displays in the SE.</p>	
82.	<p>Over a gridpoint in the SE (for which homogenous values do not exist in adjacent gridpoints), bring up the MB3 popup menu and select 'Select Homogenous Area'.</p>	<p>The edit area of only the selected gridpoint is created.</p>	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
83.	Over a gridpoint within an edit area, bring up the MB3 popup menu and select ' Deselect Contiguous Area '.	The edit area is removed from the SE.	
ea011			
84.	While remaining in Replace ('=') mode, clear the edit area using the  toolbar button.	No edit areas are present on the SE.	
85.	Bring up the Edit Area and Query Dialog from the  toolbar button. Select one of the entries from the Edit Areas listbox. Note that if there aren't any entries to choose from you can click on the Zones or ISC groups on the dialog to bring those edit areas into the Edit Areas listbox. MB1 click the 'Submit' button.	The selected edit area displays.	
86.	Select a different entry from the Edit Areas listbox. MB1 click the 'Submit' button.	The new edit area displays.	
87.	Press the 'Undo Edit Area' button on the Edit Area and Query Dialog .	The current edit area is replaced with the previous edit area (from step #).	DR #1387
88.	Select Union (' ') from the Edit Area Mode  on the toolbar .	The Union (' ') item displays in the Edit Area Mode section on the toolbar.	
89.	Select different entries from the Edit Areas listbox on the Edit Area and Query Dialog . MB1 click the 'Submit' button.	The edit area displays and is unionized with the previous edit area (which was the one from step #).	
90.	MB1 click the 'Undo Edit Area' button on the Edit Area and Query Dialog .	The current edit area is replaced with the previous edit area (from step #).	

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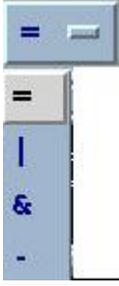
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Step #	Action	Result	Pass/Fail
ea012			
91.	Select Replace ('='') from the Edit Area Mode on the toolbar button. 	The Replace ('='') item displays in the Edit Area Mode section on the toolbar.	
92.	Clear the edit area using the C toolbar button.	The edit area is removed from the SE.	
93.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears.	
94.	Save to Quickset 1 using Q 1 .	The edit area is saved to Quickset 1.	
95.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE that intersects the previous edit area drawn.	The edit area appears.	
96.	Save to Quickset 2 using Q 2 .	The edit area is saved to Quickset 2.	
97.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE that intersects the previous edit area drawn.	The edit area appears.	
98.	Save to Quickset 3 using Q 3 .	The edit area is saved to Quickset 3.	
99.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE that intersects the previous edit area drawn.	The edit area appears.	
100.	Save to Quickset 4 using Q 4 .	The edit area is saved to Quickset 4.	
101.	Clear the edit area using the C toolbar button.	The edit area clears.	
102.	Retrieve the Quickset 1 using 1 .	The edit area stored in quickset position 1 displays.	
103.	Retrieve the Quickset 2 using 2 .	The edit area stored in quickset position 2 displays.	
104.	Retrieve the Quickset 3 using 3 .	The edit area stored in quickset position 3 displays.	
105.	Retrieve the Quickset 4 using 4 .	The edit area stored in quickset position 4 displays.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)
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Step #	Action	Result	Pass/Fail
ea013			
106.	Select Union (‘∪’) from the Edit Area Mode  on the toolbar .	The Union (‘∪’) item displays in the Edit Area Mode section on the toolbar.	
107.	Clear the edit area using the  toolbar button.	The edit area is removed from the SE.	
108.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears.	
109.	Save to Quickset 1 using  .	The edit area is saved to Quickset 1.	
110.	Clear the edit area using the  toolbar button.	The edit area clears.	
111.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE that intersects the previous edit area drawn.	The edit area appears.	
112.	Save to Quickset 2 using  .	The edit area is saved to Quickset 2.	
113.	Clear the edit area using the  toolbar button.	The edit area clears.	
114.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE that intersects the previous edit area drawn.	The edit area appears.	
115.	Save to Quickset 3 using  .	The edit area is saved to Quickset 3.	
116.	Clear the edit area using the  toolbar button.	The edit area clears.	
117.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE that intersects the previous edit area drawn.	The edit area appears.	
118.	Save to Quickset 4 using  .	The edit area is saved to Quickset 4.	
119.	Clear the edit area using the  toolbar button.	The edit area clears.	

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Step #	Action	Result	Pass/Fail
120.	Retrieve the Quickset 1 using 1 .	The edit area stored in quickset position 1 displays.	
121.	Retrieve the Quickset 2 using 2 .	The edit area stored in quickset position 2 displays and is unionized with the quickset area 1.	
122.	Retrieve the Quickset 3 using 3 .	The edit area stored in quickset position 3 displays and is unionized with the quickset area 1 and 2.	
123.	Retrieve the Quickset 4 using 4 .	The edit area stored in quickset position 4 displays and is unionized with the quickset area 1, 2, and 3.	
ea014			
124.	Select Intersect ('&') from the Edit Area Mode on the toolbar . 	The Intersect ('&') item displays in the Edit Areas Mode section on the toolbar.	
125.	Clear the edit area using the  toolbar button.	The edit area clears.	
126.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears.	
127.	Save to Quickset 1 using Q 1 . Ensure when saving the quickset, that the edit mode stays the same, i.e., intersect mode.	The edit area is saved to Quickset 1.	
128.	Clear the edit area using the  toolbar button.	The edit area clears.	
129.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE that intersects the previous edit area drawn.	The edit area appears.	
130.	Save to Quickset 2 using Q 2 .	The edit area is saved to Quickset 2.	
131.	Clear the edit area using the  toolbar button.	The edit area clears.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
132.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE that intersects the previous edit area drawn.	The edit area appears.	
133.	Save to Quickset 3 using Q 3 .	The edit area is saved to Quickset 3.	
134.	Clear the edit area using the C toolbar button.	The edit area clears.	
135.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE that intersects the previous edit area drawn.	The edit area appears.	
136.	Save to Quickset 4 using Q 4 .	The edit area is saved to Quickset 4.	
137.	Clear the edit area using the C toolbar button.	The edit area clears.	
138.	Retrieve the Quickset 1 using 1 .	The edit area stored in quickset position 1 displays.	
139.	Retrieve the Quickset 2 using 2 .	The intersection of quickset1 and quickset2 displays.	
140.	Retrieve the Quickset 3 using 3 .	The intersection of quickset1, quickset2, and quickset3 displays.	
141.	Retrieve the Quickset 4 using 4 .	The intersection of quickset1, quickset2, quickset3, and quickset4 displays.	
ea015			
142.	Select Replace ('=') from the Edit Area  Mode on the toolbar.	The edit areas are replaced with the new edit area drawn.	
143.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears.	
144.	Save to Quickset 1 using Q 1 .	The edit area is saved to Quickset 1.	
145.	Using the Draw Edit Area Tool  , MB1 drag a different closed area on the SE.	The edit area appears.	
146.	Save to Quickset 1 using Q 1 .	The edit area is saved to Quickset 1.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
147.	Clear the edit area using the  toolbar button.	The edit area clears.	
148.	Retrieve the Quickset 1 using  .	The edit area displayed is the last definition applied to the quickset.	
ea016			
149.	Select Replace ('=') from the Edit Area  Mode on the toolbar .	The edit areas are replaced with the new edit area drawn.	
150.	Clear the edit area using the  toolbar button.	The edit area clears.	
151.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears.	
152.	Bring up the Edit Area and Query dialog from the  toolbar button.	The dialog appears.	
153.	In the Edit Area and Query dialog , MB1 click 'Save/Delete' -> 'Save Edit Areas...' to bring up the Save Active Edit Area dialog . Enter an identifier such as 'ea016'. Click the 'Save Active Area' button on the dialog to dismiss the dialog and save the named edit area. Leave the Edit Area and Query dialog displayed.	The Save Active Edit Area dialog opens. The Save Active Edit Area dialog closes.	
154.	Clear the edit area using the  toolbar button.	The edit area clears.	
155.	Examine the Edit Area and Query dialog . Under the Edit Areas list will be 'ea016'.	Verified.	
156.	Select 'ea016' from the Edit Areas list on the Edit Area and Query dialog .	The selection becomes highlighted.	
157.	MB1 click the 'Submit' button on the Edit Area and Query Dialog .	The previously drawn and saved area appears.	
158.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears in place of the 'ea016' edit area.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)
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Step #	Action	Result	Pass/Fail
159.	Select 'ea016' from the Edit Areas list in the Edit Area and Query dialog. Then MB1 click the 'Submit' button on the Edit Area and Query dialog .	The previously saved area appears and replaces the edit area drawn in step #158.	
160.	Bring up the Delete Selected Edit Area dialog from the from Save/Delete menu on the Edit Area and Query dialog . Select 'ea016' and MB1 click the 'Delete Selected Area' button to Delete the ea016 edit area .	The Delete Selected Edit Area dialog opens. The Delete Selected Edit Area dialog closes.	
161.	Verify 'ea016' was removed from the Edit Area and Query dialog. Dismiss the Edit Area and Query dialog.	Verified. The Edit Area and Query dialog closes.	
ea017			
162.	Select Union (' ') from the Edit Area Mode  on the toolbar .	The Union (' ') item displays in the Edit Area Mode section on the toolbar.	
163.	Clear the edit area using the  toolbar button.	The edit area clears.	
164.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears.	
165.	Bring up the Edit Area and Query dialog from the  toolbar button.	The Edit Area and Query dialog appears.	
166.	In the Edit Area and Query dialog , MB1 click 'Save/Delete' -> 'Save Edit Areas...' to bring up the Save Active Edit Area dialog . Enter an identifier such as 'ea017'. MB1 click the 'Save Active Area' button on the dialog to dismiss the dialog and save the named edit area. Leave the Edit Area and Query dialog displayed.	The Save Active Edit Area dialog opens. The Save Active Edit Area dialog closes.	
167.	Examine the Edit Area and Query dialog . Verify 'ea017' is present under the Edit Areas list.	Verified.	

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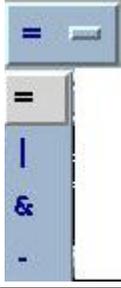
Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
168.	Clear the edit area using the  toolbar button.	The edit area clears.	
169.	Using the Draw Edit Area Tool  , MB1 drag an edit area that partially intersects with the previously defined edit area 'ea017'.	The edit area appears.	
170.	Select 'ea017' from the Edit Areas list on the Edit Area and Query dialog .	The selection becomes highlighted.	
171.	MB1 click the 'Submit' button on the Edit Area and Query dialog .	The previously saved edit area is unionized with the newly drawn edit area from step #169.	DR #1387
172.	Bring up the Delete Selected Edit Area dialog from the from Save/Delete menu on the Edit Area and Query dialog . Select 'ea017' and MB1 click the 'Delete Selected Area' button to Delete the ea017 edit area .	The Delete Selected Edit Area dialog opens. The Delete Selected Edit Area dialog closes.	
173.	Verify 'ea017' was removed from the Edit Area and Query dialog. Dismiss the Edit Area and Query dialog.	Verified. The Edit Area and Query dialog closes.	
ea018			
174.	Select Intersect ('&') from the Edit Area Mode on the toolbar . 	The Intersect ('&') item displays in the Edit Areas Mode section on the toolbar.	
175.	Clear the edit area using the  toolbar button.	The edit area clears.	
176.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears.	
177.	Bring up the Edit Area and Query dialog from the  toolbar button.	The Edit Area and Query dialog appears.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)
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Step #	Action	Result	Pass/Fail
178.	In the Edit Area and Query dialog , MB1 click 'Save/Delete' -> 'Save Edit Area...'. Enter an identifier such as 'ea018'. MB1 click the 'Save Active Area' button on the dialog to dismiss the dialog and save the named edit area. Leave the Edit Area and Query dialog displayed.	The Save Active Edit Area dialog opens. The Save Active Edit Area dialog closes.	
179.	Examine the Edit Area and Query dialog . Under the Edit Areas list will be 'ea018'.	Verified.	
180.	Clear the edit area using the  toolbar button.	The edit area clears.	
181.	Using the Draw Edit Area Tool  , MB1 drag an edit area that partially intersects with the previously defined edit area 'ea018'.	The edit area appears.	
182.	Select 'ea018' from the Edit Areas list on the Edit Area and Query dialog .	The selection becomes highlighted.	
183.	MB1 click the 'Submit' button on the Edit Area and Query dialog .	The previously saved edit area is intersected with the newly drawn edit area from step #181.	DR #1387
184.	From the Edit Area and Query dialog, MB1 click 'Save/Delete' -> 'Delete Edit Area...'. .	The Delete Selected Edit Area dialog displays.	
185.	Select 'ea018' and MB1 click 'Delete Selected Area'. Verify ea018 is removed from the Select Area and Query dialog.	Verified.	
186.	Close the Edit Area and Query dialog.	The Edit Area and Query dialog closes.	
ea019			
187.	Select Replace ('=') from the Edit Area Mode on the toolbar . 	The Replace ('=') item displays in the Edit Area Mode section on the toolbar.	
188.	Clear the edit area using the  toolbar button.	The edit area clears.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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189.	Bring up the Edit Area and Query dialog from the  toolbar button.	The Edit Area and Query dialog appears.	
190.	Select the existing Edit Area identifier 'ISC_OAX'. MB1 click 'Submit'. Then MB1 click 'Cancel'.	The 'ISC_OAX' edit area displays. The selections are made. The Edit Area and Query dialog closes.	
191.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears and replaces the ISC_OAX previously displayed.	
192.	Bring up the Edit Area and Query dialog from the  toolbar button.	The Edit Area and Query dialog appears.	
193.	In the Edit Area and Query dialog , MB1 click 'Save/Delete' -> 'Save Edit Area...' . Select the existing Edit Area identifier 'ISC_OAX'. MB1 click the 'Save Active Area' button on the dialog to dismiss the dialog and save the named edit area. Dismiss the Edit Area and Query dialog .	The Save Active Edit Area dialog displays. The Save Active Edit Area dialog closes. The Edit Area and Query dialog closes.	
194.	Clear the edit area using the  toolbar button.	The edit area clears.	
195.	Bring up the Edit Area and Query dialog from the  toolbar button. Select the existing Edit Area identifier 'ISC_OAX'. MB1 click 'Submit'.	The edit area drawn in step #191 displays.	
196.	From the Edit Area and Query dialog, MB1 click 'Save/Delete' -> 'Delete Edit Area'.	The Delete Selected Area dialog opens.	
197.	Select 'ISC_OAX' and MB1 click 'Delete Selected Area'. Note that the ISC_OAX will still appear in the dialog due to the original one at the BASE level, but the one that was created in this test case will be removed.	The ISC_OAX edit area created in this test case is deleted.	
ea020			
198.	While remaining in Replace ('=' mode, clear the edit area using the  toolbar button.	The edit area clears.	
199.	MB1 click on a 'T' grid in the Grid Manager. Examine the approximate data value ranges in the grid.	A 'T' grid displays in the SE.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
200.	Bring up the Edit Area and Query dialog from the  toolbar button. Enter a simple, yet distinguishable (for that 'T' grid) query such as: $T > 50$	The Edit Area and Query dialog displays.	
201.	MB1 click the 'Submit' button to calculate and display the edit area.	The edit area displays over the region where the temperature is greater than 50 degrees.	
202.	In the Edit Area and Query dialog , MB1 click 'Save/Delete' -> 'Save Edit Area...'. Enter 'ea020' for the edit area name. MB1 click the 'Save Active Area' button on the dialog to dismiss the dialog and save the named edit area. Dismiss the Edit Area and Query dialog .	The Save Active Edit Area dialog opens. The Save Active Edit Area dialog closes. The Edit Area and Query dialog closes.	
203.	Clear the edit area using the  toolbar button.	The edit area clears.	
204.	Using the Draw Edit Area Tool , MB1 drag a closed area on the SE.	The edit area appears.	
205.	MB1 click on a different 'T' grid in the Grid Manager that has different values from the previous grid in step #199.	The recently drawn edit area displays on the 'T' grid.	
206.	Bring up the Edit Area and Query dialog from the  toolbar button. Select the Edit Areas identifier 'ea020'. MB1 click 'Submit'.	The new edit area appears, but appears differently than the one previously saved, and the one previously drawn. The edit area is a query that is re-evaluated for each grid.	DR #1388
207.	Use the Sample Tool  to examine the values of the grid and confirm that the edit area conforms to the query.	Verified.	
208.	From the Edit Area and Query dialog, MB1 click 'Save/Delete' -> 'Delete Edit Area'.	The Delete Selected Area dialog opens.	
209.	Select 'ea020' and MB1 click 'Delete Selected Area'.	The Delete Selected Area dialog closes.	
210.	Verify 'ea020' was removed from the Edit Area and Query dialog.	Verified.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

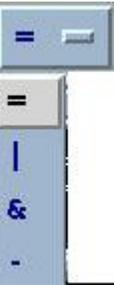
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Step #	Action	Result	Pass/Fail
ea021			
211.	Select Union (‘ ’) from the Edit Area Mode  on the toolbar .	The Union (‘ ’) item displays in the Edit Area Mode section on the toolbar.	
212.	Clear the edit area using the  toolbar button.	The edit area clears.	
213.	MB1 click on a ‘T’ grid in the Grid Manager. Examine the approximate data value ranges in the grid.	The ‘T’ grid displays in the SE.	
214.	Bring up the Edit Area and Query dialog from the  toolbar button. Enter a simple, yet distinguishable (for that ‘T’ grid) query such as: T > 50	The Edit Area and Query dialog displays.	
215.	MB1 click the ‘Submit’ button to calculate and display the edit area.	The edit area displays over the region where the temperature is greater than 50 degrees.	
216.	In the Edit Area and Query dialog , MB1 click ‘Save/Delete’ -> ‘Save Edit Area...’ . Enter ‘ea021’ for the edit area name. MB1 click the ‘Save Active Area’ button on the dialog to dismiss the dialog and save the named edit area. Dismiss the Edit Area and Query dialog .	The Save Active Edit Area dialog opens. The Save Active Edit Area dialog closes. The Edit Area and Query dialog closes.	
217.	Clear the edit area using the  toolbar button.	The edit area clears.	
218.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears.	
219.	MB1 click on a different ‘T’ grid in the Grid Manager that has different values from the previous grid in step #213.	The recently drawn edit area displays on the ‘T’ grid.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
220.	Bring up the Edit Area and Query dialog from the  toolbar button. Select the Edit Areas identifier 'ea021'. MB1 click 'Submit'.	The new edit area appears, but appears differently than the one previously saved, and the one previously drawn. The edit area is a query that is re-evaluated for each grid. The edit area is the union of the one previously drawn and the query executed (e.g., T > 50).	DR #1388
221.	Use the Sample Tool  to examine the values of the grid and confirm that the edit area conforms to the query.	Verified.	
222.	From the Edit Area and Query dialog, MB1 click 'Save/Delete' -> 'Delete Edit Area'.	The Delete Selected Area dialog opens.	
223.	Select 'ea021' and MB1 click 'Delete Selected Area'.	The Delete Selected Area dialog closes.	
224.	Verify 'ea021' was removed from the Edit Area and Query dialog.	Verified.	
ea022			
225.	Select Intersect ('&') from the Edit Area Mode on the toolbar . 	The Intersect ('&') item displays in the Edit Areas Mode section on the toolbar.	
226.	Clear the edit area using the  toolbar button.	The edit area clears.	
227.	MB1 click on a 'T' grid in the Grid Manager. Examine the approximate data value ranges in the grid.	A 'T' grid displays in the SE.	
228.	Bring up the Edit Area and Query dialog from the  toolbar button. Enter a simple, yet distinguishable (for that 'T' grid) query such as: T > 50	The Edit Area and Query dialog displays.	
229.	MB1 click the 'Submit' button to calculate and display the edit area.	The edit area displays over the region where the temperature is greater than 50 degrees.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
230.	In the Edit Area and Query dialog , MB1 click 'Save/Delete' -> 'Save Edit Area...'. Enter 'ea022' for the edit area name. MB1 click the 'Save Active Area' button on the dialog to dismiss the dialog and save the named edit area. Dismiss the Edit Area and Query dialog .	The Save Active Edit Area dialog opens. The Save Active Edit Area dialog closes. The Edit Area and Query dialog closes.	
231.	Clear the edit area using the  toolbar button.	The edit area clears.	
232.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE that intersects the previous edit area from step #229.	The edit area appears.	
233.	MB1 click on a different 'T' grid in the Grid Manager that has different values from the previous grid.	The recently drawn edit area displays on the 'T' grid.	
234.	Bring up the Edit Area and Query dialog from the  toolbar button. Select the Edit Areas identifier 'ea022'. MB1 click 'Submit'.	The new edit area appears, but appears differently than the one previously saved, and the one previously drawn. The resulting edit area is the area drawn in step #8 intersected with the query, e.g., T > 50.	DR #1388
235.	Use the Sample Tool  to examine the values of the grid and confirm that the edit area conforms to the query.	Verified.	
236.	From the Edit Area and Query dialog, MB1 click 'Save/Delete' -> 'Delete Edit Area'.	The Delete Selected Area dialog opens.	
237.	Select 'ea022' and MB1 click 'Delete Selected Area'.	The Delete Selected Area dialog closes.	
238.	Verify 'ea022' was removed from the Edit Area and Query dialog.	Verified.	
ea023			
239.	Select Replace ('=') from the Edit Area Mode on the  toolbar.	The Replace ('=') item displays in the Edit Area Mode section on the toolbar.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
240.	Clear the edit area using the  toolbar button.	The edit area clears.	
241.	MB1 click on a 'T' grid in the Grid Manager. Examine the approximate data value ranges in the grid.	A 'T' grid displays in the SE.	
242.	Bring up the Edit Area and Query dialog from the  toolbar button. Enter a simple, yet distinguishable (for that 'T' grid) query such as: T > 50	The Edit Area and Query dialog displays.	
243.	MB1 click the 'Submit' button to calculate and display the edit area.	The edit area displays over the region where the temperature is greater than 50 degrees.	
244.	In the Edit Area and Query dialog , MB1 click 'Save/Delete' -> 'Save Edit Area...'. Enter 'ea023' for the edit area name. MB1 click the 'Save Active Area' button on the dialog to dismiss the dialog and save the named edit area.	The Save Active Edit Area dialog opens. The Save Active Edit Area dialog closes.	
245.	Clear the edit area using the  toolbar button.	The edit area clears.	
246.	Enter a new query into the Edit Area and Query dialog . Enter a simple, yet distinguishable (for that 'T' grid) query that is different from the query in step #242, such as: T > 55	The query is entered into the Query text box.	
247.	MB1 click the 'Submit' button to calculate and display the edit area.	The edit area displays over the region where the temperature is greater than 55 degrees.	
248.	In the Edit Area and Query dialog , MB1 click 'Save/Delete' -> 'Save Edit Area...'. Enter 'ea023' for the edit area name. MB1 click the 'Save Active Area' button on the dialog to dismiss the dialog and save the named edit area. Dismiss the Edit Area and Query dialog .	The Save Active Edit Area dialog opens. The Save Active Edit Area dialog closes. The Edit Area and Query dialog closes.	
249.	Clear the edit area using the  toolbar button.	The edit area clears.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
250.	Bring up the Edit Area and Query dialog from the  toolbar button. Select the Edit Areas identifier 'ea023'. MB1 click 'Submit'.	The 'ea023' edit area appears. The dialog indicates that the query is not the one in step #244, but the one in step #248.	DR #1388
251.	Use the Sample Tool  to examine the values of the grid and confirm that the edit area conforms to the query.	Verified.	
252.	From the Edit Area and Query dialog, MB1 click 'Save/Delete' -> 'Delete Edit Area'.	The Delete Selected Area dialog opens.	
253.	Select 'ea023' and MB1 click 'Delete Selected Area'.	The Delete Selected Area dialog closes.	
254.	Verify 'ea023' was removed from the Edit Area and Query dialog.	Verified.	
ea024			
255.	Note: ea024 does not exist.		
ea025			
256.	While remaining in Replace ('=') mode, clear the edit area using the  toolbar button.	The edit area clears.	
257.	MB1 click on a 'T' grid in the Grid Manager. Examine the approximate data value ranges in the grid.	A 'T' grid displays.	
258.	Bring up the Edit Area and Query dialog from the  toolbar button. Enter a simple, yet distinguishable (for that 'T' grid) query that includes a static named edit area, such as: (T > 50) & ISC_OAX	The Edit Area and Query dialog displays.	
259.	MB1 click the 'Submit' button to invoke the query.	The edit area displays over the region where the temperature is greater than 50 degrees and the ISC_OAX edit area intersect.	
260.	Use the Sample Tool  to examine the values of the grid and confirm that the edit area conforms to the query.	Verified.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
261.	In the Edit Area and Query dialog , MB1 click 'Save/Delete' -> 'Save Edit Area...'. Enter 'ea025' for the edit area name. MB1 click the 'Save Active Area' button on the dialog to dismiss the dialog and save the named edit area. Dismiss the Edit Area and Query dialog .	The Save Active Edit Area dialog opens. The Save Active Edit Area dialog closes. The Edit Area and Query dialog closes.	
262.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears and replaces the previous edit area query.	
263.	MB1 click on a different 'T' grid in the Grid Manager.	The recently drawn edit area displays on the 'T' grid.	
264.	Bring up the Edit Area and Query dialog from the  toolbar button. Enter 'ea025' into the query box. MB1 click 'Submit' to execute the query.	The drawn edit area (step #262) disappears and is replaced by the ea025 query results.	DR #1388
265.	Use the Sample Tool  or other means to examine the values of the grid and confirm that the edit area conforms to the query.	Verified.	
266.	From the Edit Area and Query dialog, MB1 click 'Save/Delete' -> 'Delete Edit Area'.	The Delete Selected Area dialog opens.	
267.	Select 'ea025' and MB1 click 'Delete Selected Area'.	The Delete Selected Area dialog closes.	
268.	Verify 'ea025' was removed from the Edit Area and Query dialog.	Verified.	
ea026			
269.	Note: ea026 does not exist.		
ea027			
270.	While remaining in Replace ('=' mode, clear the edit area using the  toolbar button.	The edit area clears.	
271.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears.	
272.	Bring up the Edit Area and Query dialog from the  toolbar button.	The Edit Area and Query dialog displays.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

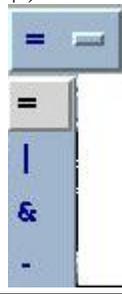
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Step #	Action	Result	Pass/Fail
273.	In the Edit Area and Query dialog , MB1 click 'Save/Delete' -> 'Save Edit Area...'. Enter 'ea027' for the edit area name. MB1 click the 'Save Active Area' button on the dialog to dismiss the dialog and save the named edit area.	The Save Active Edit Area dialog opens. The Save Active Edit Area dialog closes.	DR #1389
274.	Verify that the Edit Area and Query dialog now has an entry for 'ea027' in the Edit Areas list.	Verified	
275.	In the Edit Area and Query dialog , MB1 click 'Save/Delete' -> 'Delete Edit Area...'. .	The Delete Selected Edit Area dialog opens.	
276.	Select 'ea027' for the edit area name. Click the 'Delete Selected Area' button on the dialog to dismiss the dialog and delete the edit area.	The Delete Selected Edit Area dialog closes.	
277.	Verify that the Edit Area and Query dialog no longer has an entry for 'ea027' in the Edit Areas list.	Verified.	
278.	In the Edit Area and Query dialog , MB1 click 'Save/Delete' -> 'Delete Edit Area...'. . Verify that there is no entry for 'ea027' in the dialog. Then dismiss the dialog.	The Delete Selected Edit Area dialog opens. Verified. The Delete Selected Edit Area dialog closes.	
ea028			
279.	While remaining in Replace ('=' mode, clear the edit area using the  toolbar button.	The edit area clears.	
280.	Ensure that 'T' and 'Td' have grids for the current spatial editor time (i.e., yellow line). Create or populate them as needed.	The 'T' and 'Td' grids are available for the current spatial editor time.	
281.	Bring up the Edit Area and Query dialog from the  toolbar button. Enter the following query, modify it to fit the 'T' and 'Td' data: (T > 50) (Td > 30)	The Edit Area and Query dialog displays.	
282.	MB1 click 'Submit' to process the query. Use the Sample Tool  or other means to examine the values of the grids and confirm that the edit area conforms to the query.	Verified that all temperatures greater than 50 are selected, and all dew points greater than 30 are selected.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
283.	Enter the following query into the Edit Area and Query dialog . Modify it to fit the ‘T’ and ‘Td’ data: (T > 50) & (Td > 30)	The query is entered into the Query text box.	
284.	MB1 click ‘Submit’ to process the query. Use the Sample Tool  or other means to examine the values of the grids and confirm that the edit area conforms to the query.	Verified that each point selected has a temperature greater than 50 and a dew point greater than 30.	
285.	Dismiss the Edit Area and Query dialog.	The Edit Area and Query dialog closes.	
ea029			
286.	Select Union (‘ ’) from the Edit Area Mode  on the toolbar .	The Union (‘ ’) item displays in the Edit Area Mode section on the toolbar.	
287.	Clear the edit area using the  toolbar button.	The edit area clears.	
288.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears.	
289.	Ensure that ‘T’ and ‘Td’ have grids for the current spatial editor time (i.e., yellow line). Create or populate them as needed.	The ‘T’ and ‘Td’ grids are available for the current spatial editor time.	
290.	Bring up the Edit Area and Query dialog from the  toolbar button. Enter the following query, modify it to fit the ‘T’ and ‘Td’ data: (T > 50) (Td > 30)	The Edit Area and Query dialog displays.	
291.	MB1 click ‘Submit’ to process the query. Use the Sample Tool  or other means to examine the values of the grids and confirm that the edit area conforms to the query.	Verified that all temperatures greater than 50 are selected, and all dew points greater than 30 are selected, and the original drawn edit area is selected.	DR #1387
292.	Clear the edit area using the  toolbar button.	The edit area clears.	
293.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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294.	Enter the following query into the Edit Area and Query dialog . Modify it to fit the ‘T’ and ‘Td’ data: (T > 50) & (Td > 30)	The query is entered into the Query text box.	
295.	MB1 click ‘Submit’ to process the query. Use the Sample Tool  or other means to examine the values of the grids and confirm that the edit area conforms to the query.	Verified that each point selected has a temperature greater than 50 and a dew point greater than 30, or was a point drawn using the Draw Edit Area Tool  in step #293.	DR #1387
296.	Dismiss the Edit Area and Query dialog.	The Edit Area and Query dialog closes.	
ea030			
297.	Select Intersect (‘&’) from the Edit Area  Mode on the toolbar .	The Intersect (‘&’) item displays in the Edit Areas Mode section on the toolbar.	
298.	Clear the edit area using the  toolbar button.	The edit area clears.	
299.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears.	
300.	Ensure that ‘T’ and ‘Td’ have grids for the current spatial editor time (i.e., yellow line). Create or populate them as needed.	The ‘T’ and ‘Td’ grids are available for the current spatial editor time.	
301.	Bring up the Edit Area and Query dialog from the  toolbar button. Enter the following query, modify it to fit the ‘T’ and ‘Td’ data: (T > 50) (Td > 30)	The Edit Area and Query dialog displays.	
302.	MB1 click ‘Submit’ to process the query. Use the Sample Tool  or other means to examine the values of the grids and confirm that the edit area conforms to the query.	Verified that all points within the drawn edit area where temperatures greater than 50 or dew points greater than 30 are selected.	DR #1387
303.	Clear the edit area using the  toolbar button.	The edit area clears.	
304.	Using the Draw Edit Area Tool  , MB1 drag a closed area on the SE.	The edit area appears.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
305.	Enter the following query into the Edit Area and Query dialog . Modify it to fit the ‘T’ and ‘Td’ data: (T > 50) & (Td > 30)	The query is entered into the Query text box.	
306.	MB1 click ‘Submit’ to process the query. Use the Sample Tool  or other means to examine the values of the grids and confirm that the edit area conforms to the query.	Verified that each point selected was a point drawn using the Draw Edit Area Tool  in step #304, and has a temperature greater than 50, and a dew point greater than 30.	DR #1387
307.	Dismiss the Edit Area and Query dialog.	The Edit Area and Query dialog closes.	
ea031			
308.	Select Replace (‘=’) from the Edit Area Mode on the toolbar . 	The Replace (‘=’) item displays in the Edit Area Mode section on the toolbar.	
309.	Clear the edit area using the  toolbar button.	The edit area clears.	
310.	Ensure that ‘T’ and ‘Td’ have grids for the current spatial editor time (i.e., yellow line). Create or populate them as needed.	The ‘T’ and ‘Td’ grids are available for the current spatial editor time.	
311.	Bring up the Edit Area and Query dialog from the  toolbar button. Enter the following query, modify it to fit the ‘T’ and ‘Td’ data: (T > 50) ((T > 40) & (Td > 35))	The Edit Area and Query dialog displays.	
312.	MB1 click ‘Submit’ to process the query. Use the Sample Tool  or other means to examine the values of the grids and confirm that the edit area conforms to the query.	Verified that the points selected all have temperatures greater than 50, or the temperature is greater than 40 and the dew point is greater than 35.	
313.	Dismiss the Edit Area and Query dialog.	The Edit Area and Query dialog closes.	
ea032			
314.	While remaining in Replace (‘=’) mode, clear the edit area using the  toolbar button.	The edit area clears.	

HARDCOPY UNCONTROLLED

Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

Use or disclosure of data contained on this sheet is subject to the restriction on the title page of this document.

Step #	Action	Result	Pass/Fail
315.	Ensure that 'T' and 'Td' have grids for the current spatial editor time (i.e., yellow line). Create or populate them as needed.	The 'T' and 'Td' grids are available for the current spatial editor time.	
316.	Bring up the Edit Area and Query dialog from the  toolbar button.	The Edit Area and Query dialog displays.	
317.	Examine the list of Weather Elements contained in the dialog.	The list of weather elements match the weather elements that are available (i.e., loaded) into the SE.	
318.	Enter each of the following queries described in the table below into the Edit Area and Query dialog and MB1 click 'Submit'. Modify the data values in the query as necessary based on the available data values in the grids. Use the Sample Tool  or other means to examine the values of the grids and confirm that the edit area conforms to the query.	Grid values verified that they match the query.	DR #1390
T > 50		Greater than operator	
T < 50		Less than operator	
T == 50		Equality operator	
T != 50		Not-equal operator	
T >= 50		Greater than or equal operator.	
T <= 50		Less than or equal operator.	
(T >= 50) & (T < 75)		Intersection of two areas, defined by the same weather element.	
319.	Dismiss the Edit Area and Query dialog.	The Edit Area and Query dialog closes.	
ea033			
320.	While remaining in Replace ('=') mode, clear the edit area using the  toolbar button.	The edit area clears.	
321.	MB1 click on a 'Wx' grid in the Grid Manager. Create or populate a 'Wx' grid as needed.	A 'Wx' grid displays in the SE.	
322.	Edit the 'Wx' grid as needed to have areas of '<NoWx>', 'Sct RW-', 'Sct SW-', 'Sct RW-SW-', and 'Areas F'.	The 'Wx' grid is modified accordingly.	
323.	Bring up the Edit Area and Query dialog from the  toolbar button.	The Edit Area and Query dialog opens.	

HARDCOPY UNCONTROLLED

Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

Use or disclosure of data contained on this sheet is subject to the restriction on the title page of this document.

Step #	Action	Result	Pass/Fail
324.	Enter each of the following queries into the Edit Area and Query dialog and MB1 click 'Submit'. Verify that the correct set of points has been selected.	Verified.	
	<code>mask(Wx, `:RW:`)</code>	Selected gridpoints contain 'RW', of any intensity, and perhaps other precipitation exists too.	
	<code>mask(Wx, `^<NoCov>:<NoWx>:<NoInten>:<NoVis>:\Z', 1)</code>	Selected gridpoints only contain No Weather. An exact string match is specified using regular expressions.	
	<code>mask(Wx, `:RW:`) mask(Wx, `:SW:`)</code>	Selected gridpoints contain 'RW' or 'SW'. Other types of Wx codes may also exist at these gridpoints.	
	<code>mask(Wx, `:RW:`) & mask(Wx, `:SW:`)</code>	Selected gridpoints contains 'RW' and 'SW', of any intensity and coverage. Other types of Wx codes may also exist at these gridpoints.	
	<code>mask(Wx, `Sct:`) & (mask(Wx, `:RW:`) mask(Wx, `:SW:`))</code>	Selected gridpoints all contain 'Sct' for the coverage/probability, and the gridpoints also contain 'RW' or 'SW'.	
	<code>mask(Wx, `Areas:F:`)</code>	Selected gridpoints contain areas of fog.	
	<code>logical_not(mask(Wx, `Areas:F:`))</code>	Selected gridpoints do NOT contain areas of fog.	
	<code>mask(Wx, `:L:`)</code>	Selected gridpoints contain drizzle. (They should not have any gridpoints that match).	
	<code>logical_not(mask(Wx, `:L:`))</code>	Selected gridpoints do not contain drizzle. (They should match all gridpoints).	
325.	Dismiss the Edit Area and Query dialog.	The Edit Area and Query dialog closes.	
ea034			
326.	Bring up the Edit Area and Query dialog from the  toolbar button.	The Edit Area and Query dialog opens.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)
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Step #	Action	Result	Pass/Fail
327.	Press various buttons on the dialog to ensure that the button value goes into the query box. The buttons are: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, -, ., SP (space), BS (backspace), <, >, <=, >=, ==, !=, mask, , &, (, and).	Each button places the appropriate character into the query box.	
328.	Dismiss the Edit Area and Query dialog.	The Edit Area and Query dialog closes.	
ea035			
329.	While remaining in Replace ('=' mode, clear the edit area using the  toolbar button.	The edit area clears.	
330.	Ensure that 'T', 'Td', and 'Wind' are loaded and they have grids available. Use the Weather Element Browser to load elements if needed. Create or populate grids as needed.	'T', 'Td', and 'Wind' grids are available.	
331.	MB1 click on a 'T' grid in the Grid Manager to make it active and to set the spatial editor time.	The 'T' grid displays in the SE.	
332.	Bring up the Edit Area and Query dialog from the  toolbar button.	The Edit Area and Query dialog opens.	
333.	Enter the following queries and execute each one by pressing the Submit button. <ul style="list-style-type: none"> ISC_Tool_Area (T > 50) & (T < 80) ((Wind < 15) (T > 40)) & ISC_Tool_Area (T - Td) < 5 <p>Note: The queries may be changed to reflect the data that is available in the grids.</p>	The calculated edit areas appear for each of the queries.	
334.	MB1 click the 'Recall Query' button on the Edit Area and Query dialog .	The queries executed appear in a dropdown listbox in chronological order (along with any other previous queries).	
335.	Select the second most recent query.	The query appears in the Query entry field.	
336.	MB1 click 'Submit' to execute the query.	The calculated edit area appears the same as it did when the same query was first executed.	
337.	Dismiss the Edit Area and Query dialog.	The Edit Area and Query dialog closes.	

HARDCOPY UNCONTROLLED

Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
ea036			
338.	Select Replace ('='') from the Edit Area Mode on the  toolbar.	The Replace ('='') item displays in the Edit Area Mode section on the toolbar.	
339.	MB1 click on a 'T' grid in the Grid Manager to make it active and to set the spatial editor time.	A 'T' grid displays in the SE.	
340.	Bring up the Edit Area and Query dialog from the  toolbar button.	The Edit Area and Query dialog displays.	
341.	Enter an appropriate query for the currently displayed 'T' grid, such as: $T > 50$	The query is entered into the Query text box.	
342.	MB1 click the 'Submit' button to execute the query. Using the Sample Tool, verify it has selected the correct gridpoints determined by the value of the query.	The new edit area appears. Verified.	
343.	Select the Step Forward  button from the toolbar . Using the Sample Tool, verify the new edit area is selecting correct gridpoints determined by the value of the query.	The next grid displays with a new edit area. Note: The edit area should be different from that in the previous step since the setup for this test case required differing gridpoints satisfying $T > 50$ for each grid.	
344.	Select the Step Forward  button several more times.	The next grid displays with a new edit area. The query is recalculated for each new grid.	
345.	Dismiss the Edit Area and Query dialog.	The Edit Area and Query dialog closes.	
ea037			
346.	While remaining in Replace ('='') mode, clear the edit area using the  toolbar button.	The edit area clears.	
347.	MB1 click on a 'T' grid in the Grid Manager to make it active and to set the spatial editor time.	A 'T' grid displays.	

HARDCOPY UNCONTROLLED

Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)
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Step #	Action	Result	Pass/Fail
348.	Bring up the Edit Area and Query dialog from the  toolbar button.	The Edit Area and Query dialog displays.	
349.	Enter an appropriate query for the currently displayed 'T' grid, such as: T > 50	The query is entered into the Query text box.	
350.	MB1 click the 'Submit' button to execute the query. Using the Sample Tool, verify it has selected the correct gridpoints determined by the value of the query.	Verified.	
351.	MB1 click the 'Convert to Location' button on the Edit Area and Query dialog .	The edit area does not change. The active edit area box in the dialog changes to indicate 'polygons'.	
352.	Select the Step Forward  button from the toolbar .	The next grid displays. The edit area does not change since the edit area is now polygons instead of a query.	
353.	Select the Step Forward  button several more times.	The next grid displays The edit area does not change.	
354.	Dismiss the Edit Area and Query dialog.	The Edit Area and Query dialog closes.	
ea038			
355.	While remaining in Replace ('=' mode, clear the edit area using the  toolbar button.	The edit area clears.	
356.	MB1 click on a 'T' grid in the Grid Manager to make it active.	A 'T' grid displays in the SE.	
357.	MB3 popup menu on the colorbar and select 'Set Pickup Value...' to bring up the Set Pickup Value dialog . Set the pick up value for 'T' but do not assign the set value. Then MB1 click 'Dismiss'. Note: The user may MB1 click on the colorbar to set the Pickup Value.	The Set Pickup Value dialog opens. The pick up value is set for 'T'. The Set Pickup Value dialog closes.	
358.	MB1 click on a 'Wind' grid in the Grid Manager to make it active.	A 'Wind' grid displays in the SE.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)
Use or disclosure of data contained on this sheet is subject to the restriction on the title page of this document.

Step #	Action	Result	Pass/Fail
359.	MB3 popup menu on the colorbar and select 'Set Pickup Value...' to bring up the Set Pickup Value dialog . Set the pick up value for 'Wind' but do not assign the set value. Then MB1 click 'Dismiss'. Note: The user may MB1 click on the colorbar to set the Pickup Value.	The Set Pickup Value dialog opens. The pick up value is set for 'Wind'. The Set Pickup Value dialog closes.	
360.	MB1 click on a 'Wx' grid in the Grid Manager to make it active.	A 'Wx' grid displays in the SE.	
361.	MB3 popup menu on the colorbar and select 'Set Pickup Value...' to bring up the Set Pickup Value dialog . Set the pick up value for 'Wx' but do not assign the set value. Then MB1 click 'Dismiss'. Note: The user may MB1 click on the colorbar to set the Pickup Value.	The Set Pickup Value dialog opens. The pick up value is set for 'Wx'. The Set Pickup Value dialog closes.	
362.	MB1 click on a 'Hazards' grid in the Grid Manager to make it active.	A 'Hazards' grid displays in the SE.	
363.	MB3 popup menu on the colorbar and select 'Set Pickup Value...' to bring up the Set Pickup Value dialog . Set the pick up value for 'Hazards' but do not assign the set value. Then MB1 click 'Dismiss'. Note: The user may MB1 click on the colorbar to set the Pickup Value.	The Set Pickup Value dialog opens. The pick up value is set for 'Hazards'. The Set Pickup Value dialog closes.	
364.	Bring up the Edit Area and Query dialog from the  toolbar button.	The Edit Area and Query dialog displays. A Pickup Value menu is available.	
365.	Enter the expression using the 'T' from the Weather Elements listbox, '>' from the buttons, and choose 'T' from the 'Pickup Value' buttons. Examine the query in the dialog.	The query should contain the actual pickup value for T and should look similar to 'T > 54'.	DR #1391

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
366.	MB1 click the 'Clear Query' button. Enter the expression using the 'Wind' from the Weather Elements listbox, BS from the keypad portion of the dialog, '[0]' manual entry, SP from the keypad portion of the dialog, '>' from the buttons, and choose 'Wind' from the 'Pickup Value' buttons. You might need to enter spaces manually. Examine the query in the dialog.	The Query clears. The query should contain the actual pickup value for Wind (magnitude) and should look similar to 'Wind[0] > 15'.	DR #1391
367.	MB1 click the 'Clear Query' button. Enter 'mask(' into the query box, select 'Wx' from the Weather Elements listbox, enter a ',' (comma), choose Wx from the Pickup Value listbox, then ')'. Examine the query in the dialog.	The Query clears. The query should contain the actual pickup value for Wx and should look similar to 'mask(Wx, 'Sct:SW-;<NoVis>:')'.	DR #1391
368.	MB1 click the 'Clear Query' button. Enter 'mask(' into the query box, select 'Hazards' from the Weather Elements listbox, enter a ',' (comma), choose Hazards from the Pickup Value listbox, then ')'. Examine the query in the dialog.	The Query clears. The query should contain the actual pickup value for Hazards and should look similar to 'mask(Hazards, 'WS.W')'.	DR #1391
369.	MB1 click the 'Clear Query' button. Dismiss the Edit Area and Query dialog.	The Query clears. The Edit Area and Query dialog closes.	
ea039			
370.	Ensure that topography isn't loaded by clearing the ' Maps ' -> ' Topography '.	Topography is no longer checked on the Maps menu and Topography is not present in the SE Legend .	
371.	Bring up the Edit Area and Query dialog from the  toolbar button.	The Edit Area and Query dialog displays.	
372.	Verify that there is a 'Topo' under 'Weather Elements' on the dialog.	'Topo' exists.	
373.	Make a query and submit it. Change the query as appropriate based on your elevation. A sample query is: Topo > 4000	The query is successful based on the entered Topo query. You may wish load the topography grid if needed, by MB1 clicking ' Maps ' -> ' Topography '.	DR #1392
374.	Dismiss the Edit Area and Query dialog.	The Edit Area and Query dialog closes.	
ea040			
375.	While remaining in Replace ('=') mode, clear the edit area using the  toolbar button.	The edit area clears.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
376.	<u>MB1 click on a 'Wind' grid</u> in the Grid Manager. <u>Create</u> or <u>populate</u> a 'Wind' grid as needed.	A 'Wind' grid displays.	
377.	<u>Edit</u> the 'Wind' grid as needed to have areas of NE 10, SE 25, W 40, NW 15, and E 25.	The Wind grid is modified accordingly.	
378.	Bring up the <u>Edit Area and Query dialog</u> from the  toolbar button.	The Edit Area and Query dialog appears.	
379.	Enter each of the following queries into the <u>Edit Area and Query dialog</u> and MB1 click the 'Submit' button. Verify that the correct set of points has been selected.	Verified.	
Wind[0] > 20		Selected gridpoints contain wind magnitudes greater than 20.	
(Wind[0] >= 20) & (Wind[0] <= 30)		Selected gridpoints contain wind magnitudes between 20 and 30 inclusive.	
(Wind[1] >= 90) & (Wind[1] <= 225)		Selected gridpoints contain wind directions between 90 (E) and 225 (SW).	
(Wind[1] >= 325) (Wind[1] <= 45)		Selected gridpoints contain wind directions between 325 (NW) and 45 (NE).	
(Wind[0] < 20) & (Wind[1] >= 20) & (Wind[1] <= 180)		Selected gridpoints contain winds that are less than 20 knots and between 20 degrees and South (180 degrees).	
380.	Dismiss the Edit Area and Query dialog.	The Edit Area and Query dialog closes.	
ea041			
381.	While remaining in Replace ('=' mode, clear the edit area using the  toolbar button.	The edit area clears.	
382.	<u>MB1 click on a 'Hazards' grid</u> in the Grid Manager. <u>Create</u> or <u>populate</u> a 'Hazards' grid as needed.	A 'Hazards' grid displays.	
383.	<u>Edit</u> the 'Hazards' grid as needed to have areas of '<None>', 'WS.A', 'WS.W', and 'WW.Y'. Have an area containing both 'WS.W^WS.A'.	The Hazards grid is modified accordingly.	
384.	Bring up the <u>Edit Area and Query dialog</u> from the  toolbar button.	The Edit Area and Query dialog displays.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)
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Step #	Action	Result	Pass/Fail
385.	Enter each of the following queries into the Edit Area and Query dialog and MB1 click the 'Submit' button. Verify that the correct set of points has been selected.	Verified.	
	mask(Hazards, '^<None>\ Z', 1)	Selected gridpoints contain no watches, warnings, or advisories.	
	mask(Hazards, 'WS.W')	Selected gridpoints contain WS.W, and perhaps other watches/warnings, or advisories.	
	mask(Hazards, 'WS.W') & mask(Hazards, 'WS.A')	Selected gridpoints contain both a WS.W and a WS.A. Other watches, warnings, and advisories may also be present.	
	mask(Hazards, 'WS.W^WS.A')	Selected gridpoints contain both a WS.W and a WS.A. Other watches, warnings, and advisories may also be present.	
	mask(Hazards, '^WS.W^WS.A\ Z', 1)	Selected gridpoints contain ONLY a WS.W and a WS.A. No other watches, warnings, or advisories are present.	
386.	Dismiss the Edit Area and Query dialog.	The Edit Area and Query dialog closes.	
ea042			
387.	While remaining in Replace ('=') mode, clear the edit area using the  toolbar button.	The edit area clears.	
388.	Bring up the Edit Area and Query dialog from the  toolbar button.	The Edit Area and Query dialog displays. A Wx/Dis Values menu is available.	
389.	Enter 'mask(Wx, ' into the query box following by choosing 'Wx' from the Wx/Dis Values menu. The Define Weather dialog displays. Choose a weather value through the dialog and press 'Set'. Add a closing ')' to the query. Examine the query in the dialog.	The query should be similar to: mask(Wx, 'uglystring representation'), such as mask(Wx, 'Wide:S:-:<NoVIs>:').	
390.	MB1 click the 'Clear Query' button. Enter 'mask(Hazards, ' into the query box following by choosing 'Hazards' from the Wx/Dis Values menu. The Set Discrete dialog displays. Choose a discrete value through the dialog and press 'Set'. Add a closing ')' to the query. Examine the query in the dialog.	The Query clears. The query should mask(Hazards, 'uglystring representation'), such as mask(Hazards, 'WS.A').	
391.	MB1 click the 'Clear Query' button. Dismiss the Edit Area and Query dialog.	The Query clears. The Edit Area and Query dialog closes.	
ea043			

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)
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392.	While remaining in Replace ('=' mode, clear the edit area using the  toolbar button.	The edit area clears.	
393.	Bring up the Edit Area and Query dialog from the  toolbar button.	The Edit Area and Query dialog displays. A Create Mask menu is available.	
394.	Use the pull down menu CreateMask and select 'Wx'. From the Weather Values window, enter 'S' and 'R' for Types, enter 'Sct' for Coverages. This will produce a query that will match any weather containing 'Sct', and any weather containing 'R' or 'S'. MB1 click 'Ok'. Note: If a column is left blank, then any of the choices will be matched.	The Weather Values dialog displays. The dialog is used to find all occurrences of any of the selected items. The wxcontains() query is entered into the query dialog. The query looks like: wxcontains(Wx,['Sct'], ['R','S'],[],[],[]).	
395.	Execute the query by MB1 clicking the 'Submit' button.	The query is executed and the results are as expected on the displayed grid, provided the criteria are met from the Wx grid.	
396.	Clear the edit area using the  toolbar button.	The edit area clears.	
397.	MB1 click on a Wx grid in the grid manager. Edit the weather grid using the Draw Edit Area Tool  to create edit areas. MB3 popup over the color bar and select the 'Set Pickup Value...' option to select and set the value. Set up three areas containing the following weather: <ul style="list-style-type: none"> • SChc RW- • Chc RW- • SChc RW-, SChc SW- 	The grid is modified accordingly. The edit areas are created.	
398.	Use the pull down menu CreateMask and select 'Wx'. Note: If a column is left blank, then any of the choices will be matched.	The Weather Values dialog displays. The dialog is used to find all occurrences of any of the selected items.	
399.	Enter 'RW' for Types. This will produce a query that will match any weather containing any weather containing 'RW'. MB1 click 'Ok'.	The wxcontains() query is entered into the query dialog. The query looks like: wxcontains(Wx,[], ['RW'],[],[],[]).	
400.	Execute the query MB1 clicking the 'Submit' button.	All three areas are selected since all three areas contain RW.	

HARDCOPY UNCONTROLLED

Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

Use or disclosure of data contained on this sheet is subject to the restriction on the title page of this document.

Step #	Action	Result	Pass/Fail
401.	Use the pull down menu CreateMask and select 'Wx'. Note: If a column is left blank, then any of the choices will be matched.	The Weather Values dialog displays. The dialog is used to find all occurrences of any of the selected items.	
402.	Enter 'RW' for Types; select 'SChc' for coverages. This will produce a query that will match any weather containing any weather containing 'RW' and contains 'SChc'. MB1 click 'Ok'.	The wxcontains() query is entered into the query dialog. The query looks like: wxcontains(Wx,['SChc'], ['RW'],[],[],[]).	
403.	Execute the query MB1 clicking the 'Submit' button.	The [SChc RW-] and [SChc RW-, SChc SW-] areas are selected since only those two areas contain RW and SChc.	
404.	MB1 click on a Hazards grid in the grid manager. Edit the grid to have three areas containing the following hazards: <ul style="list-style-type: none"> • HW.W • HW.A • HW.W and HW.A overlaid 	A Hazards grid displays in the SE. The edit areas are created.	
405.	Use the pull down menu CreateMask and select 'Hazards'. Note: If the column is left blank, then any of the choices will be matched.	The Discrete Values dialog displays. The dialog is used to find all occurrences of any of the selected items.	
406.	Select HW.W and HW.A. This will produce a query that will match any headline containing 'HW.W' or 'HW.A'. MB1 click 'Ok'.	The wxcontains() query is entered into the query dialog. The query looks like: wxcontains(Hazards,['HW.W','HW.A']).	
407.	Execute the query MB1 clicking the 'Submit' button.	The query is executed. All three areas are selected.	
408.	Use the pull down menu CreateMask and select 'Hazards'. Note: If the column is left blank, then any of the choices will be matched.	The Discrete Values dialog displays. The dialog is used to find all occurrences of any of the selected items.	
409.	Select HW.W. This will produce a query that will match any headline containing 'HW.W'. MB1 click 'Ok'.	The wxcontains() query is entered into the query dialog. The query looks like: wxcontains(Hazards,['HW.W']).	
410.	Execute the query using the Submit button.	The query is executed. The area with HW.W by itself, and the one with HW.W and HW.A overlaid are selected.	
411.	Dismiss the Edit Area and Query dialog.	The Edit Area and Query dialog closes.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
ea044			
412.	While remaining in Replace ('=') mode, clear the edit area using the  toolbar button.	The edit area clears.	
413.	Bring up the Edit Area and Query dialog from the  toolbar button. Note the entries that appear in the Edit Areas listbox of the dialog.	The Edit Area and Query dialog opens.	
414.	Click on the 'Counties', then 'ISC', then 'Zones' entries in the 'Group Names' listbox of the Edit Area and Query dialog .	The entries assigned to each of the groups are added to the 'Edit Areas' listbox.	
415.	Toggle on and off various combinations of the 'Group Names' listbox.	The entries assigned to each of the groups is shown and then hidden from the 'Edit Areas' listbox.	
416.	Using the Draw Edit Area Tool  , MB1 drag an open figure in the SE window.	The edit area appears.	
417.	From the Edit Area and Query dialog , choose the Save/Delete pull down menu and select 'Save Edit Area...' to bring up the Save Edit Area dialog . Enter the identifier as 'ea044a' and enter 'new group' called 'ea044-GroupTest', select 'Save Active Area'. Turn on/off the 'Group Names' in the Edit Area and Query dialog so that only the 'ea044-GroupTest' button is selected.	The 'ea044-GroupTest' group name is listed in the 'Group Name(s)' listbox. The 'ea044a' edit area is listed in the 'Edit Areas' listbox (when the 'ea044-GroupTest' group name is selected/highlighted).	
418.	Repeat steps #416 and #417 two more times but save the active edit area under 'ea044b' and 'ea044c' with the group identifier of 'ea044-GroupTest'.	The new edit areas are also listed in the 'Edit Areas' listbox.	
419.	Place the 'ea044a' and 'ea044b' edit areas also into the group called 'Zones' by MB1 clicking the Save/Delete pull down menu on the Edit Area and Query dialog and selecting 'Save Edit Area Group...' to bring up the Save Edit Area Group dialog . MB1 click on the 'Zones' entry in the 'Groups' listbox. Then MB1 click on (leave existing entries clicked on) the 'ea044a' and 'ea044b' in the 'includes Edit Area(s)' listbox. MB1 click on 'Save Active Area'.	The Save Edit Area Group dialog appears. The 'ea044a' and 'ea044b' edit areas should now be contained in both the 'Zones' and the 'ea044-GroupTest' groups. Verify this by using the Edit Area and Query dialog and clicking on/off the entries on the 'Group Names' listbox to confirm that 'ea044a' and 'ea044b' appear in both the 'Zones' and 'ea044-GroupTest' groups, and that the 'ea044c' exists in the 'ea044-GroupTest' group.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
420.	Delete the 'ea044a' edit area by MB1 clicking the Save/Delete pull down menu on the Edit Area and Query dialog and selecting 'Delete Edit Area...' to bring up the Delete Edit Area dialog . Select 'ea044a' in the listbox and MB1 click 'Deleted Selected Area'.	The Delete Edit Area dialog appears. The 'ea044a' edit area is removed as verified by the 'Edit Areas' listbox contents when the 'Groups' listbox is set to 'ea044-GroupTest'.	
421.	Delete the 'ea044-GroupTest' group by using the Save/Delete pull down menu on the Edit Area and Query dialog and selecting 'Delete Edit Area Group...' to bring up the Delete Edit Area Group dialog . Select 'ea044-GroupTest' in the listbox, click on 'Delete All Areas Within Group' and 'with Verification', and MB1 click 'Delete Group'.	The Delete Edit Area Group dialog opens. Dialogs will be presented for the 'ea044b' and 'ea044c' edit areas confirming that they should be deleted. Delete ONLY the 'ea044b' edit area. Verify that the group has been deleted and the 'ea044b' area is now also deleted using the Edit Area and Query dialog 'Groups' and 'Edit Areas' listboxes.	
422.	Create a new edit area group called 'ea044-AnotherGroupTest' by using the Save/Delete pull down menu on the Edit Area and Query dialog and selecting 'Save Edit Area Group...' to bring up the Save Edit Area Group dialog . Enter 'ea044-AnotherGroupTest' in the Identifier box. You should only see the 'ea044c' entry in the 'includes Edit Area(s)' box. Select the 'ea044c' entry. MB1 click 'Save Group'.	The Save Edit Area Group dialog opens.	
423.	Delete the 'ea044-AnotherGroupTest' group by using the Save/Delete pull down menu on the Edit Area and Query dialog and selecting 'Delete Edit Area Group...' to bring up the Delete Edit Area Group dialog . Select 'ea044-AnotherGroupTest' in the listbox, click on 'Delete All Areas Within Group' and ensure the 'with Verification' is off, and MB1 click 'Delete Group'.	The Delete Edit Area Group dialog opens. Verify that the group has been deleted and the 'ea044c' area is also deleted using the Edit Area and Query dialog 'Groups' and 'Edit Areas' listboxes.	
424.	MB1 click on the 'Zones' Group in the Edit Area and Query dialog and ensure that 'ea044a' and 'ea044b' are no longer part of the group (since they were previously deleted).	Verified.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
425.	Delete the 'Zones' group by using the Save/Delete pull down menu on the Edit Area and Query dialog and selecting 'Delete Edit Area Group...' to bring up the Delete Edit Area Group dialog . Select 'Zones' in the listbox, click OFF 'Delete All Areas Within Group' and ensure the 'with Verification' is off, and MB1 click 'Delete Group'.	The Delete Edit Area Group dialog opens. The modified 'Zones' group is restored to the original values, and a dialog has been presenting indicating the entry will continue to exist since a 'Zones' definition exists at the BASE level.	
426.	Dismiss the Edit Area and Query dialog.	The Edit Area and Query dialog closes.	
ea045			
427.	While remaining in Replace ('=') mode, clear the edit area using the  C toolbar button.	The edit area clears.	DR #1392
428.	Bring up the Edit Area and Query dialog from the  toolbar button.	The Edit Area and Query dialog appears.	
429.	Ensure there are 'T', 'Wind', 'Td', 'Wx', and 'Hazards' grids available. Also load the 'T' and 'Td' from the latest run of the 'NAM' model. Load the elements if needed through the Weather Element Browser and use create from scratch and other editing techniques to ensure a variety of data is available.	Verified. The 'T' and 'Td' grids from the latest run of the NAM model are loaded..	
430.	MB1 click on the Time Scale to set the SE time. MB1 click so that a grid from each of the above elements intersects with the SE time.	The SE time is set.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)
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Step #	Action	Result	Pass/Fail
431.	Enter the following queries and execute them from the Edit Area and Query dialog. You may want to change the values in the queries to be more appropriate for your available data. Verify that the query was executed correctly by examining the grids.	Verified.	
	<code>(T > 40) & (Topo > 3000) & (Topo < 7000)</code>	Selects gridpoints that have a temperature greater than 40 with elevations between 3000 and 7000 ft.	
	<code>(T - Td) <= 15</code>	Selects gridpoints that have a dew point depression (T-Td) less than or equal to 15.	
	<code>absolute(T - T_SFC__NAM) >= 5</code>	Selects gridpoints that are within 5 degrees of each other for the T and the NAM T fields.	
	<code>(mask(Wx, '\:S:') mask(Wx, '\:SW:')) & (T > 32) & (Wind[0] > 10) & ((Wind[1] >= 325) (Wind[1] <= 45))</code>	Selects gridpoints that contain snow or snow showers with the temperature greater than freezing and with winds greater than 10kts from directions NW through NE.	
432.	Dismiss the Edit Area and Query dialog.	The Edit Area and Query dialog closes.	
ea046			
433.	While remaining in Replace ('=') mode, clear the edit area using the  toolbar button.	The edit area clears.	
434.	Bring up the Edit Area and Query dialog from the  toolbar button.	The Edit Area and Query dialog appears.	
435.	Turn on the 'ISC' entry in the 'Group Names' listbox. MB1 click on 'ISC_OAX'. MB1 click 'Submit'.	The ISC_OAX edit area is drawn.	
436.	From the Edit Area and Query dialog , MB1 click the Save/Delete pull down menu and select 'Save Edit Area...' to bring up the Save Edit Area dialog . Enter the identifier as 'ISC_OAX'. MB1 click 'Save Active Edit Area'. Acknowledge the error.	The Save Active Edit Area dialog appears. An error dialog is raised since the ISC_OAX is a recursive query which calls itself. The error dialog closes.	
437.	Close the Save Active Edit Area window, if necessary.	The Save Active Edit Area window closes.	
438.	MB1 click the 'Convert To Locations' button on the Edit Area and Query dialog .	The 'Convert To Location' button becomes inactive.	

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Step #	Action	Result	Pass/Fail
439.	From the Edit Area and Query dialog , MB1 click the Save/Delete pull down menu and select 'Save Edit Area...' to bring up the Save Edit Area dialog . Enter the identifier as 'ISC_OAX'. Then MB1 click the 'Save Active Area' button.	Since the query is now converted to locations (i.e., polygons), there is no recursion and the edit area is saved.	
440.	Delete the edit area from the Edit Area and Query dialog by MB1 clicking the Save/Delete pull down menu and select 'Delete Edit Area...' to bring up the Delete Selected Edit Area dialog . MB1 click on the identifier 'ISC_OAX'. MB1 click 'Delete Selected Area'.	The Delete Selected Edit Area dialog appears. An Item Delete dialog is raised to inform you that ISC_OAX will still continue to exist at a higher level (e.g., BASE). The user-level 'ISC_OAX' is removed.	
441.	MB1 click the 'Delete' button in the Item Delete dialog. Then dismiss the Edit Area and Query dialog.	The Item Delete dialog closes. The Delete Selected Edit Area dialog closes. The Edit Area and Query dialog closes.	
ea047			
442.	While remaining in Replace ('=') mode, clear the edit area using the  toolbar button.	The edit area clears.	
443.	Bring up the Edit Area and Query dialog from the  toolbar button.	The Edit Area and Query dialog appears.	
444.	Enter the following into the query box: ISC_OAX a T > 45	The text is entered into the query box.	
445.	MB1 click 'Submit' to execute the query.	An error dialog displays showing that the query was bad. The error dialog indicates the portion of the query that was in error.	
446.	Dismiss the Edit Area and Query dialog.	The Edit Area and Query dialog closes.	
	End of test.		

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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5.0 REQUIREMENTS VERIFICATION TRACEABILITY MATRIX (RVTM)

Number	Description	Test Step(s)
SYSR2300	The AWIPS GFESuite shall implement Create closed edit area in replace mode.	2-5
SYSR2301	The AWIPS GFESuite shall implement Create closed edit area in union mode.	6-9
SYSR2302	The AWIPS GFESuite shall implement Create closed edit area in intersect mode.	10-15
SYSR2303	The AWIPS GFESuite shall implement Toggle edit area.	16-21
SYSR2304	The AWIPS GFESuite shall implement Clear edit area.	22-25
SYSR2305	The AWIPS GFESuite shall implement Create various types of edit areas.	26-33
SYSR2306	The AWIPS GFESuite shall implement Select homogenous and deselect contiguous edit area in replace mode.	34-46
SYSR2307	The AWIPS GFESuite shall implement Select homogenous and deselect contiguous edit area in union mode.	47-67
SYSR2308	The AWIPS GFESuite shall implement Select homogenous and deselect contiguous edit area in intersect mode.	68-78
SYSR2309	The AWIPS GFESuite shall implement Select homogenous and deselect contiguous edit area in replace mode with no adjacent homogenous values.	79-83
SYSR2310	The AWIPS GFESuite shall implement Undo Edit Area from Edit Area and Query Dialog.	84-90
SYSR2311	The AWIPS GFESuite shall implement Save and retrieve quickset in replace mode.	91-105
SYSR2312	The AWIPS GFESuite shall implement Save and retrieve quickset in union mode.	106-123
SYSR2313	The AWIPS GFESuite shall implement Save and retrieve quickset in intersect mode.	124-141
SYSR2314	The AWIPS GFESuite shall implement Subsequent quickset saves.	142-148
SYSR2315	The AWIPS GFESuite shall implement Save and retrieve named static edit area in replace mode.	149-161
SYSR2316	The AWIPS GFESuite shall implement Save and retrieve named static edit area in union mode.	162-173
SYSR2317	The AWIPS GFESuite shall implement Save and retrieve named static edit area in intersect mode.	174-186
SYSR2318	The AWIPS GFESuite shall implement Save and retrieve named static edit area in replace mode Name previously used.	187-197
SYSR2319	The AWIPS GFESuite shall implement Save and retrieve named query in replace mode.	198-210
SYSR2320	The AWIPS GFESuite shall implement Save and retrieve named query in union mode.	211-224
SYSR2321	The AWIPS GFESuite shall implement Save and retrieve named query in intersect mode.	225-238
SYSR2322	The AWIPS GFESuite shall implement Save and retrieve named query in replace mode.	239-254
SYSR2323	The AWIPS GFESuite shall implement Save and retrieve named combination of static area and query in replace mode.	256-268
SYSR2324	The AWIPS GFESuite shall implement Delete named edit area.	270-278

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Contract DG133W-05-CQ-1067; Test Case GFE Edit Areas (001-047)

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Number	Description	Test Step(s)
SYSR2325	The AWIPS GFESuite shall implement Queries using union and intersect in replace mode.	279-285
SYSR2326	The AWIPS GFESuite shall implement Queries using union and intersect in union mode.	286-296
SYSR2327	The AWIPS GFESuite shall implement Queries using union and intersect in intersect mode.	297-307
SYSR2328	The AWIPS GFESuite shall implement Queries using multiple sets of parentheses.	308-313
SYSR2329	The AWIPS GFESuite shall implement Various formations of Queries using scalar WEs.	314-319
SYSR2330	The AWIPS GFESuite shall implement Various formations of Queries using Weather WEs.	320-325
SYSR2331	The AWIPS GFESuite shall implement Button entry of items into query.	326-328
SYSR2332	The AWIPS GFESuite shall implement Typing entry of items into query, and use of recall button.	329-337
SYSR2333	The AWIPS GFESuite shall implement Queries with time stepping.	338-345
SYSR2334	The AWIPS GFESuite shall implement Queries with time stepping after converting to location.	346-354
SYSR2335	The AWIPS GFESuite shall implement Pickup value button in Query Dialog.	355-369
SYSR2336	The AWIPS GFESuite shall implement Topo always available in Edit Area and Query Dialog.	370-374
SYSR2337	The AWIPS GFESuite shall implement Various formations of Queries using Vector WEs.	375-380
SYSR2338	The AWIPS GFESuite shall implement Various formations of Queries using Discrete WEs.	381-386
SYSR2339	The AWIPS GFESuite shall implement Wx/Dis Values button in Query Dialog.	387-391
SYSR2340	The AWIPS GFESuite shall implement Create Mask menu in Query Dialog.	392-411
SYSR2341	The AWIPS GFESuite shall implement Edit Area Groups on the Edit Area and Query Dialog.	412-426
SYSR2342	The AWIPS GFESuite shall implement Complex Queries.	427-432
SYSR2343	The AWIPS GFESuite shall implement Recursive Queries.	433-441
SYSR2344	The AWIPS GFESuite shall implement Bad Queries.	442-446

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