Test Case WarnGen_3.0

for

Contract DG133W-05-CQ-1067

Advanced Weather Interactive Processing System (AWIPS)
Operations & Maintenance

AWP.TE.SWCTR/TO10-0005

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Change History

Revision	Date	Affected Pages	Explanation of Change
Draft	21 Nov. 2008	ALL	Initial Draft (Note: Builds on the TO8 and TO9 WarnGen test cases.)
1	16 Jan. 2009	ALL	Result of NWS comments and PDT
2	6 Feb. 2009	ALL	Result of DT

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1.0 SCOPE

See TO10 Software Test Plan.

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2.0 APPLICABLE DOCUMENTS

2.1 Source Documents

- TO8 Test Case WarnGen 1.0
- TO9 Test Case WarnGen 2.0

2.2 Reference Documents

- TO10 Software Test Plan for the Advanced Weather Interactive Processing System Project, Contract #DG133W-05-CQ-1067, January 2009.
- Section 5 of the AWIPS D-2D User's Manual Build 8.1.
- The Silver Spring NWS AWIPS 1 test bed application.
- Release OB8.2 of the Weather Event Simulator (WES).
- Rational RequisitePro.

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3.0 TEST CASE DESCRIPTION

This test case demonstrates the extensions and WarnGen templates (including life cycle controls) for a Convective Flash Flood Warning, Extreme Wind Warning, Extreme Wind Warning SVS (FOLLOWUP), Flash Flood with Svr Tstm, Flash Flood Statement, non-convective FFW (Dam Break), non-convective Flash Flood Statement, Areal Flood Warning, Areal Flood Warning FOLLOWUP, Areal Flood Advisory, and Areal Flood Advisory FOLLOWUP.

3.1 Assumptions, Constraints and Preconditions

- TO10 software has been installed successfully.
- CAVE and EDEX are running.
- Data has been ingested.
- The clock is set to local time.
- Localization is set to OAX.
- Actions, Results, and Requirements highlighted in gray 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 TO10 Software Test Plan, Section 2.2.

3.3 Test Inputs

Section 4.0 contains the test procedures for this test case. Sections 2.2 – 2.9 of the TO10 Software Test Plan contain general test inputs applicable to all TO10 test cases.

3.4 Test Outputs

The data will be displayed using CAVE capabilities.

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4.0 TEST SCENARIO

Step	Action	Result	Pass/Fail
Duration Configuration			
1.	Mouse Button (MB) 1 click 'CAVE' -> 'New' -> 'Text Workstation'	The Text Workstation and Text 1 windows open. (Note: The Text 1 window may be closed.)	
2.	MB1 click 'koax' -> 'koax 4 Bit Products' -> 'koax 4bit Reflectivity' -> '0.5 Refl'.	The radar data displays in CAVE.	
3.	MB1 click on the radar product ID in the lower right corner of CAVE.	The radar image is hidden from the main display.	
4.	MB1 click on the 'WarnGen' button in the tool bar.	The WarnGen application loads. A 'Drag me to Storm' labeled point displays in the center of the CAVE display. This point is in edit mode. The WarnGen GUI appears.	
5.	In the WarnGen GUI, MB1 click the 'Other' radio button. Select 'Areal Flood Advisory' from the dropdown menu.	The 'Areal Flood Advisory' template is selected.	
6.	Verify a '20' minute option is not available under the 'Duration' dropdown menu.	Verified.	
7.	Open a Konsole and navigate to the 'fla_default.cfg' file (cave/etc/warngen). Then edit the file (e.g., vi) by adding a '20' minute duration period. Save the file (e.g., :wq).	The 'fla_default.cfg' file is modified and the changes are saved.	
8.	In the WarnGen GUI, select another template from the dropdown menu (e.g., Areal Flood Warning) and toggle back to the Areal Flood Advisory option. This refreshes the WarnGen GUI window.	The WarnGen template is toggled back to the Areal Flood Advisory.	
9.	Expand the 'Duration' dropdown menu and verify a '20' appears as an option.	Verified.	
Storm Track Direction and Speed Configuration			
10.	Close the WarnGen GUI. Then reopen WarnGen.	The WarnGen GUI closes. The WarnGen GUI opens. A 'Drag me to Storm' labeled point displays in the center of the CAVE display. This point is in edit mode.	
11.	Modify the 'Drag me to Storm' point.	A vector appears with the point near the center of the line, tick marks, and time values at the starting point, current/endpoint, and arrowhead.	
12.	In the D2D display, note the default storm speed (kts) (distance between the tick marks) and the default direction (degrees).	Noted.	

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Step	Action	Result	Pass/Fail
13.	Close the WarnGen GUI.	The WarnGen GUI closes.	
14.	In the Konsole, navigate to the severethunderstorm_OAX.cfg (cave/etc/warngen). Then edit the file (e.g., vi) by changing the defaultSpeedKt and defaultDirection values. Save the file (e.g., :wq).	The 'severethunderstorm_OAX.cfg' file is modified and the changes are saved.	
15.	MB1 click on the 'WarnGen' button in the tool bar.	The WarnGen application loads. A 'Drag me to Storm' labeled point displays in the center of the CAVE display. This point is in edit mode. The WarnGen GUI appears.	
16.	In the main pane, click and hold MB1 on the 'Drag me to Storm' point and drag it to another location. Compare the vector orientation and speed with that noted in step 12.	A vector appears with the point near the center of the line, tick marks, and time values at the starting point, current/endpoint, and arrowhead. The default settings modified in step 14 are reflected in the initial vector's storm speed and direction. An initial warning area hatched box appears.	
17.	Close the WarnGen GUI.	The WarnGen GUI closes.	
18.	In the Konsole, navigate to the severethunderstorm_OAX.cfg (cave/etc/warngen). Then edit the file (e.g., vi) by reverting the changes back to the original defaultSpeedKt and defaultDirection values (20kts and 225 degrees respectively). Save the file (e.g., :wq).	The 'severethunderstorm_OAX.cfg' file is modified and the changes are saved.	
19.	MB1 click on the 'WarnGen' button in the tool bar.	The WarnGen application loads. A 'Drag me to Storm' labeled point displays in the center of the CAVE display. This point is in edit mode. The WarnGen GUI appears.	
20.	In the main pane, click and hold MB1 on the 'Drag me to Storm' point and drag it to another location.	A southwest-northeast oriented vector appears with the point near the center of the line, tick marks, and time values at the starting point, current/endpoint, and arrowhead. An initial warning area hatched box appears.	
21.	Close the WarnGen GUI.	The WarnGen GUI closes.	
22.	Close the Konsole.	The WarnGen GUI closes.	
23.	Clear anything displayed in the main pane.	The main pane displays a blank map.	

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Step	Action	Result	Pass/Fail
Initial Setup			
24.	Change the scale from the tool bar drop down menu to 'WFO'.	The WFO scale displays in the main pane, focusing on the OAX CWA.	
25.	From the 'Maps' dropdown menu, select 'County Names'.	The county names appear in the associated county.	
26.	MB3 click and hold on the County Names product ID in the product legend and select 'Change Color'. Select the color red and MB1 click 'OK'.	The County Names change to red.	
27.	From the 'Maps' dropdown menu, select 'CWAs'.	The CWAs appear in the main pane.	
28.	MB3 click and hold on the CWA product ID in the product legend and select 'Change Color'. Select the color yellow and MB1 click 'OK'.	The CWA boarders change to yellow.	
29.	From the 'Maps' dropdown menu, select 'Cities'.	The Cities appear in the main pane.	
30.	MB1 click the Density dropdown menu on the tool bar and select '0.5'.	The number of cities displayed in the main pane is reduced.	
31.	MB1 click 'koax' -> 'koax 4 Bit Products' -> 'koax 4bit Reflectivity' -> '0.5 Refl'.	The 'koax 0.5 Reflectivity (Z)' product displays in the main pane.	
32.	MB1 click the radar product ID in the lower right corner of the main display to hide the radar product.	The radar image is hidden from the display.	
Tornado Warning			
Issuing initial Tornado Warning			
33.	MB1 click on the 'WarnGen' button in the tool bar.	The WarnGen application loads. A 'Drag me to Storm' labeled point displays in the center of the CAVE display. This point is in edit mode. The WarnGen GUI appears.	
34.	In the main pane, click and hold MB1 on the 'Drag me to Storm' point and drag it to another location.	A southwest-northeast oriented vector appears with the point near the center of the line, tick marks, and time values at the starting point, current/endpoint, and arrowhead. An initial warning area hatched box appears.	
35.	Press the right arrow key on the keyboard once.	The point is relabeled 'Drag me to Storm' and appears at the starting point of the vector.	
36.	MB1 click and hold the 'Drag me to Storm' point and drag it to another location.	The vector rotates accordingly. The spacing between the tick marks adjusts accordingly. The hatched warning box remains at its current position.	

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Step	Action	Result	Pass/Fail
37.	In the 'WarnGen' window, select the following: -Track type: One Storm -Edit: Box and Track	The selections are made as indicated by the radio buttons.	
38.	Click MB1 on the 'Track' button under the 'Redraw Box on Screen from:' section.	The hatched box is redrawn on the vector.	
39.	MB1 click and hold on a vertex and dragging it to another location outside the koax's CWA boundary. At the same time, ensure that multiple KOAX counties are included in the warning polygon.	The hatched area expands within the enclosed box up to the CWA boundary but does not cross over the CWA boundary. Multiple KOAX counties are included in the polygon. Note: If the polygon encompasses a portion of a county less than a specified percentage of the size of a county, the portion will not be hatched.	
40.	MB1 click on the 'Warned/Hatched Area' button under the 'Redraw Box on Screen from:' section.	The polygon's vertices are redrawn on the vector snapping back to the CWA border while creating additional vertices. Portions of the county not hatched, as discussed in step 39, are not included in the updated polygon.	
41.	MB1 click on 'Tornado' in the 'Product type' section.	The selection is made as indicated by the radio button. The BASIS FOR WARNINGS and CALLS TO ACTION sections update to display items applicable for Tornado Warnings.	
42.	Select the 'Duration:' to 20 min.	The duration is set to 20 min. The ending time of the warning updates with the change in duration. The vector contracts and the time at the arrowhead modifies.	
43.	MB1 within the Optional bullets section, select items such that the following Tornado Template Parameters are highlighted: BASIS FOR WARNING: Confirmed large tornado CALLS TO ACTION: Severe Tornado CALLS TO ACTION: If caught outside CALLS TO ACTION: Don't outrun in car Then click MB1 on the 'Create Text' button.	The Tornado Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	

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Step	Action	Result	Pass/Fail
44.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: TOR Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Tornado Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes. The header window in the Text Editor displays the header information set in the Header Block window.	
45.	Verify the Tornado Warning text contains the Tornado Template Parameters selected.	The BASIS FOR WARNING and CALLS TO ACTION exist in the Tornado Warning statement.	
46.	Verify the Tornado Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
47.	Verify the Tornado Warning text contains the counties encompassed by the polygon. Verify cities near the warning vector are included in the pathcast.	The counties are listed in the Tornado Warning statement. The cities near the warning vector are included in the warning.	
48.	Verify the Tornado Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.NEW.KOAX.TO.W.0001.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
49.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
50.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	
51.	Verify the text warning contains a presence of closing $$.	The Tornado Warning text contains a presence of closing $$.	
52.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Tornado Warning is saved. The text window displays the saved warning.	

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Step	Action	Result	Pass/Fail
53.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMATOROAX' window (not in edit mode).	
54.	Note the VTEC code (the 'TO.W.xxxx' portion in particular).	TO.W._____	
55.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
56.	Close the Text Warngen: OMATOROAX window.	The Text Warngen: OMATOROAX window closes.	
57.	MB1 click the WarnGen button in the toolbar and select the 'Tornado' radio button. Then MB1 click the 'Correct/Reissue' dropdown menu to verify the created warning is able to be corrected (COR) or reissued (NEW).	The warning is ingested as verified by observing that the ingested warning can be corrected (COR) or reissued (NEW).	
58.	Create another Tornado Warning by repeating steps 33-53, but choosing different options within the 'WarnGen: Operational' window.	The new Tornado Warning displays in the text window.	
59.	Verify the VTEC code in the warning is different from the first Tornado Warning (e.g., TO.W.0001 becomes TO.W.0002).	The VTEC code from the first warning was persisted. The second Tornado Warning contains updated VTEC coding.	
60.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
61.	Close the Text Warngen: OMATOROAX window.	The Text Warngen: OMATOROAX window closes.	
62.	MB1 click the WarnGen button in the toolbar and select the 'Tornado' radio button. Then MB1 click the 'Correct/Reissue' dropdown menu to verify the created warning is able to be corrected (COR) or reissued (NEW). Verify two lines similar to the following appear: COR.KOAX.TO.W.xxxx(NEW) NEW.KOAX.TO.W.xxxx	The warning is ingested as verified by observing that the ingested warning can be corrected (COR) or reissued (NEW).	

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Step	Action	Result	Pass/Fail
Correcting a Tornado Warning (COR)			
63.	In the WarnGen GUI, from the 'Correct/Reissue' dropdown, select the 'COR' product.	The storm vector and polygon appear. The polygon is uneditable as indicated by the small triangle vertex points.	
64.	Change the bulletins to be displayed in the warning text product. Then MB1 click the 'Create Text' button.	The Tornado Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
65.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: TOR Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Tornado Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
66.	Verify the Tornado Warning text contains the Tornado Template Parameters selected.	The BASIS FOR WARNING and CALLS TO ACTION exist in the Tornado Warning statement.	
67.	Verify the Tornado Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
68.	Verify the Tornado Warning text contains the counties encompassed by the polygon. Verify cities near the warning vector are included in the pathcast.	The counties are listed in the Tornado Warning statement. The cities near the warning vector are included in the warning.	
69.	Verify the Tornado Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.COR.KOAX.TO.W.xxxx.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
70.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
71.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	

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Step	Action	Result	Pass/Fail
72.	Verify the text warning contains a presence of closing $$.	The Tornado Warning text contains a presence of closing $$.	
73.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Tornado Warning is saved. The text window displays the saved warning.	
74.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMATOROAX' window (not in edit mode).	
75.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
76.	Close the Text Warngen: OMATOROAX window.	The Text Warngen: OMATOROAX window closes.	
77.	MB1 click the WarnGen button in the toolbar, select the Tornado radio button, and verify a line similar to the following appears: 'COR.KOAX.TO.W.xxxx(NEW)'	Verified.	
Continuing a Tornado Warning (CON) by Issuing a Follow-Up for a Tornado Warning (SVS)			
78.	In the WarnGen GUI, MB1 click on the 'Other' radio button.	'FOLLOWUP' appears in the dropdown menu.	
79.	MB1 click on the 'FOLLOWUP' dropdown menu and verify the 'CON' and 'CAN' options are available.	The list includes the 'CON' and 'CAN' options.	
80.	MB1 click the 'CON' option.	The vector and polygon of the original warning appear on the main pane.	
81.	Modify the warning polygon, but do not remove any counties from the original warning polygon. MB1 click the 'Warned/Hatched Area' button. Note: The polygon can only be reduced in size. Select additional warning bulletins. Then MB1 click the 'Create Text' button.	The Tornado Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	

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Step	Action	Result	Pass/Fail
82.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: SVS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Tornado Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
83.	Verify the Tornado Warning text contains the Tornado Template Parameters selected.	The BASIS FOR WARNING and CALLS TO ACTION exist in the Tornado Warning statement.	
84.	Verify the Tornado Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
85.	Verify the Tornado Warning text contains the counties encompassed by the polygon. Verify cities near the warning vector are included in the pathcast.	The counties are listed in the Tornado Warning statement. The cities near the warning vector are included in the warning.	
86.	Verify the Tornado Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.CON.KOAX.TO.W.xxxx.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
87.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
88.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	
89.	Verify the text warning contains a presence of closing $$.	The Tornado Warning text contains a presence of closing $$.	
90.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Tornado Warning is saved. The text window displays the saved warning.	

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Step	Action	Result	Pass/Fail
91.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMATOROAX' window (not in edit mode).	
92.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
93.	Close the Text Warngen: OMATOROAX window.	The Text Warngen: OMATOROAX window closes.	
94.	MB1 click the WarnGen button in the toolbar, select the 'Other' radio button, and MB1 click the 'FOLLOWUP' dropdown menu. Verify a line similar to the following appears: 'COR.KOAX.TO.W.xxxx(CON)	Verified.	
Continuing/Canceling a Tornado Warning (CON/CAN)			
95.	MB1 click on the 'FOLLOWUP' dropdown menu and verify the 'CON' and 'CAN' options are available.	The list includes the 'CON' and 'CAN' options.	
96.	MB1 click the 'CON' option.	The vector and polygon of the original warning appear on the main pane.	
97.	Modify the warning polygon to remove at least one county from the original warning polygon. Select additional warning bulletins. Then MB1 click the 'Create Text' button.	The Tornado Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
98.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: SVS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Tornado Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
99.	Verify the Tornado Warning text contains the Tornado Template Parameters selected.	The BASIS FOR WARNING and CALLS TO ACTION exist in the Tornado Warning statement.	
100.	Verify the Tornado Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	

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Step	Action	Result	Pass/Fail
101.	Verify the Tornado Warning text contains the counties encompassed by the polygon. Verify cities near the warning vector are included in the pathcast.	The counties are listed in the Tornado Warning statement. The cities near the warning vector are included in the warning.	
102.	Verify the Tornado Warning text contains the VTEC code above the BULLETIN section. The 2 lines of VTEC code should be in the following format: /O.CAN.KOAX.TO.W.xxxx.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ /O.CON.KOAX.TO.W.xxxx.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
103.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
104.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	
105.	Verify the text warning contains a presence of closing $$.	The Tornado Warning text contains a presence of closing $$.	
106.	In the text window, insert an explanation replacing the '!**EXPLANATION**!' line and replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Tornado Warning is saved. The text window displays the saved warning.	
107.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMATOROAX' window (not in edit mode).	
108.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
109.	Close the Text Warngen: OMATOROAX window.	The Text Warngen: OMATOROAX window closes.	
110.	MB1 click the WarnGen button in the toolbar, select the 'Other' radio button, and MB1 click the 'FOLLOWUP' dropdown menu. Verify two lines similar to the following appear: 'COR.KOAX.TO.W.xxxx(CON)'	Verified.	

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Step	Action	Result	Pass/Fail
Reissuing a Tornado Warning (NEW)			
111.	In the WarnGen GUI, MB1 click on the 'Tornado' radio button.	'Update List' appears in the dropdown menu.	
112.	From the 'Update List' dropdown, select the 'NEW' product.	The storm vector and polygon appear. The polygon is editable.	
113.	Modify the polygon, duration and for the warning text product. Select several bulletins. Then MB1 click the 'Create Text' button.	The Tornado Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
114.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: TOR Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Tornado Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
115.	Verify the Tornado Warning text contains the Tornado Template Parameters selected.	The BASIS FOR WARNING and CALLS TO ACTION exist in the Tornado Warning statement.	
116.	Verify the Tornado Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
117.	Verify the Tornado Warning text contains the counties encompassed by the polygon. Verify cities near the warning vector are included in the pathcast.	The counties are listed in the Tornado Warning statement. The cities near the warning vector are included in the warning.	
118.	Verify the Tornado Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.NEW.KOAX.TO.W.xxxx.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
119.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	

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Step	Action	Result	Pass/Fail
120.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	
121.	Verify the text warning contains a presence of closing $$.	The Tornado Warning text contains a presence of closing $$.	
122.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Tornado Warning is saved. The text window displays the saved warning.	
123.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMATOROAX' window (not in edit mode).	
124.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
125.	Close the Text Warngen: OMATOROAX window.	The Text Warngen: OMATOROAX window closes.	
126.	MB1 click the WarnGen button in the toolbar, select the Tornado radio button, and verify two lines similar to the following appear: 'COR.KOAX.TO.W.xxxx(NEW)' 'NEW.KOAX.TO.W.xxxx'	Verified.	
Cancelling a Tornado Warning (CAN)			
127.	In the WarnGen GUI, MB1 click the 'Other' radio button. Select 'Severe Weather Statement' from the dropdown menu adjacent to the 'Other' radio button. From the 'FOLLOWUP' dropdown menu, select the 'CAN' product.	The storm vector and polygon appear. The polygon is uneditable as indicated by the small triangle vertex points. The bulletins are grayed out.	
128.	MB1 click the 'Create Text' button.	The Tornado Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	

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Step	Action	Result	Pass/Fail
129.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: SVS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Tornado Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
130.	Verify the Tornado Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
131.	Verify the Tornado Warning text contains the counties encompassed by the polygon.	The counties are listed in the Tornado Warning statement.	
132.	Verify the Tornado Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.CAN.KOAX.TO.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
133.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
134.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	
135.	Verify the text warning contains a presence of closing $$.	The Tornado Warning text contains a presence of closing $$.	
136.	In the text window, insert an explanation replacing the '!**EXPLANATION**!' line and replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Tornado Warning is saved. The text window displays the saved warning.	
137.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMATOROAX' window (not in edit mode).	

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Step	Action	Result	Pass/Fail
138.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
139.	Close the Text Warngen: OMATOROAX window.	The Text Warngen: OMATOROAX window closes.	
Expiring a Tornado Warning (EXP)			
140.	MB1 click on the 'WarnGen' button in the tool bar.	The WarnGen application loads. A 'Drag me to Storm' labeled point displays in the center of the CAVE display. This point is in edit mode. The WarnGen window appears.	
141.	In the main pane, click and hold MB1 on the 'Drag me to Storm' point and drag it to another location.	A first guess vector appears with the point near the center of the line, tick marks, and time values at the starting point, current/endpoint, and arrowhead. An initial warning area hatched box appears.	
142.	Press the right arrow key on the keyboard once.	The point is relabeled 'Drag me to Storm' and appears at the starting point of the vector.	
143.	MB1 click and hold the 'Drag me to Storm' point and drag it to another location.	The vector is redrawn. The spacing between the tick marks adjusts accordingly. The hatched warning box remains at its current position.	
144.	In the 'WarnGen' window, select the following: -Track type: One Storm -Edit: Box and Track	The selections are made as indicated by the radio buttons.	
145.	Click MB1 on the 'Track' button under the 'Redraw Box on Screen from:' section.	The hatched box is redrawn on the vector.	
146.	MB1 click and hold on a vertex and dragging it to another location outside the koax's CWA boundary. At the same time, ensure that multiple KOAX counties are included in the warning polygon.	The hatched area expands within the enclosed box up to the CWA boundary but does not cross over the CWA boundary. Multiple KOAX counties are included in the polygon.	
147.	MB1 click on the 'Warned/Hatched Area' button under the 'Redraw Box on Screen from:' section.	The polygon's vertices are redrawn on the vector snapping back to the CWA border while creating additional vertices.	

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Step	Action	Result	Pass/Fail
148.	MB1 click on 'Tornado' in the 'Product type' section.	The selection is made as indicated by the radio buttons. The BASIS FOR WARNINGS and CALLS TO ACTION sections update to display items applicable for Tornado Warnings.	
149.	Select the 'Duration:' to 10 min.	The duration is set to 10 min. The ending time of the warning updates with the change in duration. The vector contracts and the time at the arrowhead modifies.	
150.	Select items such that the following Tornado Template Parameters are highlighted: BASIS FOR WARNING: Confirmed large tornado CALLS TO ACTION: Severe Tornado CALLS TO ACTION: If caught outside Then click MB1 on the 'Create Text' button.	The Tornado Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
151.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: TOR Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Tornado Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
152.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Tornado Warning is saved. The text window displays the saved warning.	
153.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMATOROAX' window (not in edit mode).	
154.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	

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Step	Action	Result	Pass/Fail
155.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button. Select 'Severe Weather Statement' from the dropdown menu adjacent to the 'Other' radio button and verify the created warning is able to be expired (EXP).	The warning is ingested as verified by observing that the ingested warning can be expired (EXP).	
156.	Select the EXP product.	The storm vector and polygon appear. The polygon is uneditable as indicated by the small triangle vertex points. The bulletins are grayed out.	
157.	MB1 click the 'Create Text' button.	The Tornado Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
158.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: SVS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Tornado Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
159.	Verify the Tornado Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
160.	Verify the Tornado Warning text contains the counties encompassed by the polygon.	The counties are listed in the Tornado Warning statement.	
161.	Verify the Tornado Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.EXP.KOAX.TO.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
162.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	

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Step	Action	Result	Pass/Fail
163.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	
164.	Verify the text warning contains a presence of closing $$.	The Tornado Warning text contains a presence of closing $$.	
165.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Tornado Warning is saved. The text window displays the saved warning.	
166.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMATOROAX' window (not in edit mode).	
167.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
168.	Close the Text Warngen: OMATOROAX window.	The Text Warngen: OMATOROAX window closes.	
169.	MB1 click the WarnGen button in the toolbar, select the 'Other' radio button. Select 'Severe Weather Statement' from the dropdown menu adjacent to the 'Other' radio button. Verify in the 'FOLLOWUP' dropdown menu that an expired product (EXP) line similar to the following appears: 'COR.KOAX.TO.W.xxxx(EXP)'	The warning is ingested as verified by observing that the expired product (EXP) exists in the FOLLOWUP dropdown menu.	
170.	Close the WarnGen GUI.	The WarnGen GUI closes.	
Severe Thunderstorm Warning			
Issuing a Severe Thunderstorm Warning			
171.	MB1 click on the 'WarnGen' button in the tool bar.	The WarnGen application loads. A 'Drag me to Storm' labeled point displays in the center of the CAVE display. This point is in edit mode. The WarnGen window appears.	
172.	In the main pane, click and hold MB1 on the 'Drag me to Storm' point and drag it to another location.	A southwest-northeast oriented vector appears with the point near the center of the line, tick marks, and time values at the starting point, current/endpoint, and arrowhead. An initial warning area hatched box appears.	

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Step	Action	Result	Pass/Fail
173.	Press the right arrow key on the keyboard once.	The point is relabeled 'Drag me to Storm' and appears at the starting point of the vector.	
174.	MB1 click and hold the 'Drag me to Storm' point and drag it to another location.	The vector rotates accordingly. The spacing between the tick marks adjusts accordingly. The hatched warning box remains at its current position.	
175.	In the 'WarnGen' window, select the following: -Track type: One Storm -Edit: Box and Track	The selections are made as indicated by the radio buttons.	
176.	Click MB1 on the 'Track' button under the 'Redraw Box on Screen from:' section.	The hatched box is redrawn on the vector.	
177.	MB1 click and hold on a vertex and dragging it to another location outside the koax's CWA boundary. At the same time, ensure that multiple KOAX counties are included in the warning polygon.	The hatched area expands within the enclosed box up to the CWA boundary but does not cross over the CWA boundary. Multiple KOAX counties are included in the polygon. Note: If the polygon encompasses a portion of a county less than a specified percentage of the size of a county, the portion will not be hatched.	
178.	MB1 click on the 'Warned/Hatched Area' button under the 'Redraw Box on Screen from:' section.	The polygon's vertices are redrawn on the vector snapping back to the CWA border while creating additional vertices. Portions of the county not hatched, as discussed in step 39, are not included in the updated polygon.	
179.	MB1 click on 'Severe Thunderstorm' in the 'Product type' section if not selected by default.	The selection is made as indicated by the radio button. The BASIS FOR WARNINGS and CALLS TO ACTION sections update to display items applicable for Severe Thunderstorm Warnings.	
180.	Select the 'Duration:' to 20 min.	The duration is set to 20 min. The ending time of the warning updates with the change in duration. The vector contracts and the time at the arrowhead modifies.	

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Step	Action	Result	Pass/Fail
181.	MB1 within the Optional bullets section, select items such that the following Severe Thunderstorm Template Parameters are highlighted: BASIS FOR WARNING: Doppler radar indicated THREAT: 60mph wind THREAT: Penny size hail CALLS TO ACTION: Svr t-storms can produce tornadoes… Then click MB1 on the 'Create Text' button.	The Tornado Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
182.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: SVR Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Severe Thunderstorm Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
183.	Verify the Severe Thunderstorm Warning text contains the Severe Thunderstorm Template Parameters selected.	The BASIS FOR WARNING, THREAT and CALLS TO ACTION exist in the Severe Thunderstorm Warning statement.	
184.	Verify the Severe Thunderstorm Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
185.	Verify the Severe Thunderstorm Warning text contains the counties encompassed by the polygon. Verify cities near the warning vector are included in the pathcast.	The counties are listed in the Severe Thunderstorm Warning statement. The cities near the warning vector are included in the warning.	
186.	Verify the Severe Thunderstorm Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.NEW.KOAX.SV.W.0001.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	

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Step	Action	Result	Pass/Fail
187.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
188.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	
189.	Verify the text warning contains a presence of closing $$.	The Severe Thunderstorm Warning text contains a presence of closing $$.	
190.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Severe Thunderstorm Warning is saved. The text window displays the saved warning.	
191.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMATOROAX' window (not in edit mode).	
192.	Note the VTEC code (the 'SV.W.xxxx' portion in particular).	SV.W._____	
193.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
194.	Close the Text Warngen: OMASVROAX window.	The Text Warngen: OMASVROAX window closes.	
195.	MB1 click the WarnGen button in the toolbar and select the 'Severe Thunderstorm' radio button. Then MB1 click the 'Correct/Reissue' dropdown menu to verify the created warning is able to be corrected (COR) or reissued (NEW).	The warning is ingested as verified by observing that the ingested warning can be corrected (COR) or reissued (NEW).	
196.	Create another Severe Thunderstorm Warning by repeating steps 171-191, but choosing different options within the 'WarnGen: Operational' window.	The new Severe Thunderstorm Warning displays in the text window.	
197.	Verify the VTEC code in the warning is different from the first Severe Thunderstorm Warning (e.g., SV.W.0001 becomes SV.W.0002).	The VTEC code from the first warning was persisted. The second Severe Thunderstorm Warning contains updated VTEC coding.	
198.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
199.	Close the Text Warngen: OMASVROAX window.	The Text Warngen: OMASVROAX window closes.	

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Step	Action	Result	Pass/Fail
200.	MB1 click the WarnGen button in the toolbar and select the 'Severe Thunderstorm' radio button. Then MB1 click the 'Correct/Reissue' dropdown menu to verify the created warning is able to be corrected (COR) or reissued (NEW). Verify two lines similar to the following appear: COR.KOAX.SV.W.xxxx(NEW) NEW.KOAX.SV.W.xxxx	The warning is ingested as verified by observing that the ingested warning can be corrected (COR) or reissued (NEW).	
Correcting a Severe Thunderstorm Warning (COR)			
201.	In the WarnGen GUI, from the 'Correct/Reissue' dropdown, select the 'COR' product.	The storm vector and polygon appear. The polygon is uneditable as indicated by the small triangle vertex points.	
202.	Change the bulletins to be displayed in the warning text product. Then MB1 click the 'Create Text' button.	The Severe Thunderstorm Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
203.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: SVR Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Severe Thunderstorm Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
204.	Verify the Severe Thunderstorm Warning text contains the Severe Thunderstorm Template Parameters selected.	The BASIS FOR WARNING, THREAT and CALLS TO ACTION exist in the Severe Thunderstorm Warning statement.	
205.	Verify the Severe Thunderstorm Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
206.	Verify the Severe Thunderstorm Warning text contains the counties encompassed by the polygon. Verify cities near the warning vector are included in the pathcast.	The counties are listed in the Severe Thunderstorm Warning statement. The cities near the warning vector are included in the warning.	

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Step	Action	Result	Pass/Fail
207.	Verify the Severe Thunderstorm Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.COR.KOAX.SV.W.xxxx.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
208.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
209.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	
210.	Verify the text warning contains a presence of closing $$.	The Severe Thunderstorm Warning text contains a presence of closing $$.	
211.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Severe Thunderstorm Warning is saved. The text window displays the saved warning.	
212.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMASVROAX' window (not in edit mode).	
213.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
214.	Close the Text Warngen: OMASVROAX window.	The Text Warngen: OMASVROAX window closes.	
215.	MB1 click the WarnGen button in the toolbar, select the Severe Thunderstorm radio button, and verify a line similar to the following appears: 'COR.KOAX.SV.W.xxxx(NEW)'	Verified.	
Continuing a Severe Thunderstorm Warning (CON) by Issuing a Follow-Up for a Severe Thunderstorm Warning (SVS)			
216.	In the WarnGen GUI, MB1 click on the 'Other' radio button. Select 'Severe Weather Statement' from the dropdown menu adjacent to the 'Other' radio button.	'FOLLOWUP' appears in the dropdown menu.	
217.	MB1 click on the 'FOLLOWUP' dropdown menu and verify the 'CON' and 'CAN' options are available.	The list includes the 'CON' and 'CAN' options.	

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Step	Action	Result	Pass/Fail
218.	MB1 click the 'CON' option.	The vector and polygon of the original warning appear on the main pane.	
219.	Modify the warning polygon, but do not remove any counties from the original warning polygon. MB1 click the 'Warned/Hatched Area' button. Note: The polygon can only be reduced in size. Select additional warning bulletins. Then MB1 click the 'Create Text' button.	The Severe Thunderstorm Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
220.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: SVS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Severe Thunderstorm Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
221.	Verify the Severe Thunderstorm Warning text contains the Severe Thunderstorm Template Parameters selected.	The BASIS FOR WARNING, THREAT and CALLS TO ACTION exist in the Severe Thunderstorm Warning statement.	
222.	Verify the Severe Thunderstorm Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
223.	Verify the Severe Thunderstorm Warning text contains the counties encompassed by the polygon. Verify cities near the warning vector are included in the pathcast.	The counties are listed in the Severe Thunderstorm Warning statement. The cities near the warning vector are included in the warning.	
224.	Verify the Severe Thunderstorm Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.CON.KOAX.SV.W.xxxx.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
225.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	

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Step	Action	Result	Pass/Fail
226.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	
227.	Verify the text warning contains a presence of closing $$.	The Severe Thunderstorm Warning text contains a presence of closing $$.	
228.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Severe Thunderstorm Warning is saved. The text window displays the saved warning.	
229.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMASVROAX' window (not in edit mode).	
230.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
231.	Close the Text Warngen: OMASVROAX window.	The Text Warngen: OMASVROAX window closes.	
232.	MB1 click the WarnGen button in the toolbar, select the 'Other' radio button, and MB1 click the 'FOLLOWUP' dropdown menu. Verify a line similar to the following appears: 'COR.KOAX.SV.W.xxxx(CON)	Verified.	
Continuing/Canceling a Severe Thunderstorm Warning (CON/CAN)			
233.	MB1 click on the 'FOLLOWUP' dropdown menu and verify the 'CON' and 'CAN' options are available.	The list includes the 'CON' and 'CAN' options.	
234.	MB1 click the 'CON' option.	The vector and polygon of the original warning appear on the main pane.	
235.	Modify the warning polygon to remove at least one county from the original warning polygon. Select additional warning bulletins. Then MB1 click the 'Create Text' button.	The Severe Thunderstorm Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	

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Step	Action	Result	Pass/Fail
236.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: SVS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Severe Thunderstorm Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
237.	Verify the Severe Thunderstorm Warning text contains the Severe Thunderstorm Template Parameters selected.	The BASIS FOR WARNING, THREAT and CALLS TO ACTION exist in the Severe Thunderstorm Warning statement.	
238.	Verify the Severe Thunderstorm Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
239.	Verify the Severe Thunderstorm Warning text contains the counties encompassed by the polygon. Verify cities near the warning vector are included in the pathcast.	The counties are listed in the Severe Thunderstorm Warning statement. The cities near the warning vector are included in the warning.	
240.	Verify the Severe Thunderstorm Warning text contains the VTEC code above the BULLETIN section. The 2 lines of VTEC code should be in the following format: /O.CAN.KOAX.SV.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /O.CON.KOAX.SV.W.xxxx. 000000T0000Z-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
241.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
242.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	
243.	Verify the text warning contains a presence of closing $$.	The Severe Thunderstorm Warning text contains a presence of closing $$.	

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Step	Action	Result	Pass/Fail
244.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Severe Thunderstorm Warning is saved. The text window displays the saved warning.	
245.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMASVROAX' window (not in edit mode).	
246.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
247.	Close the Text Warngen: OMASVROAX window.	The Text Warngen: OMASVROAX window closes.	
248.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button. Select 'Severe Weather Statement' from the dropdown menu adjacent to the 'Other' radio button and MB1 click the 'FOLLOWUP' dropdown menu. Verify two lines similar to the following appear: 'COR.KOAX.SV.W.xxxx(CON)'	Verified.	
Reissuing a Severe Thunderstorm Warning (NEW)			
249.	In the WarnGen GUI, MB1 click on the 'Severe Thunderstorm' radio button.	'Reissue' appears in the dropdown menu.	
250.	From the 'Reissue' dropdown, select the 'NEW' product.	The storm vector and polygon appear. The polygon is editable.	
251.	Modify the polygon, duration and for the warning text product. Select several bulletins. Then MB1 click the 'Create Text' button.	The Severe Thunderstorm Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	

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Step	Action	Result	Pass/Fail
252.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: SVR Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Severe Thunderstorm Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
253.	Verify the Severe Thunderstorm Warning text contains the Severe Thunderstorm Template Parameters selected.	The BASIS FOR WARNING and CALLS TO ACTION exist in the Severe Thunderstorm Warning statement.	
254.	Verify the Severe Thunderstorm Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
255.	Verify the Severe Thunderstorm Warning text contains the counties encompassed by the polygon. Verify cities near the warning vector are included in the pathcast.	The counties are listed in the Severe Thunderstorm Warning statement. The cities near the warning vector are included in the warning.	
256.	Verify the Severe Thunderstorm Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.NEW.KOAX.SV.W.xxxx.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
257.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
258.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	
259.	Verify the text warning contains a presence of closing $$.	The Severe Thunderstorm Warning text contains a presence of closing $$.	
260.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Severe Thunderstorm Warning is saved. The text window displays the saved warning.	

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Step	Action	Result	Pass/Fail
261.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMASVROAX' window (not in edit mode).	
262.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
263.	Close the Text Warngen: OMASVROAX window.	The Text Warngen: OMASVROAX window closes.	
264.	MB1 click the WarnGen button in the toolbar, select the Severe Thunderstorm radio button, and verify two lines similar to the following appear: 'COR.KOAX.SV.W.xxxx(NEW)' 'NEW.KOAX.SV.W.xxxx'	Verified.	
Cancelling a Severe Thunderstorm Warning (CAN)			
265.	In the WarnGen GUI, MB1 click the 'Other' radio button. Select 'Severe Weather Statement' from the dropdown menu adjacent to the 'Other' radio button. From the 'FOLLOWUP' dropdown menu, select the 'CAN' product.	The storm vector and polygon appear. The polygon is uneditable as indicated by the small triangle vertex points. The bulletins are grayed out.	
266.	MB1 click the 'Create Text' button.	The Severe Thunderstorm Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
267.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: SVS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Severe Thunderstorm Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
268.	Verify the Severe Thunderstorm Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	

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Step	Action	Result	Pass/Fail
269.	Verify the Severe Thunderstorm Warning text contains the counties encompassed by the polygon.	The counties are listed in the Severe Thunderstorm Warning statement.	
270.	Verify the Severe Thunderstorm Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.CAN.KOAX.SV.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
271.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
272.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	
273.	Verify the text warning contains a presence of closing $$.	The Severe Thunderstorm Warning text contains a presence of closing $$.	
274.	In the text window, insert an explanation replacing the '!**EXPLANATION**!' line and replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Severe Thunderstorm Warning is saved. The text window displays the saved warning.	
275.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMASVROAX' window (not in edit mode).	
276.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
277.	Close the Text Warngen: OMASVROAX window.	The Text Warngen: OMASVROAX window closes.	
Expiring a Severe Thunderstorm Warning (EXP)			
278.	MB1 click on the 'WarnGen' button in the tool bar.	The WarnGen application loads. A 'Drag me to Storm' labeled point displays in the center of the CAVE display. This point is in edit mode. The WarnGen window appears.	

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Step	Action	Result	Pass/Fail
279.	In the main pane, click and hold MB1 on the 'Drag me to Storm' point and drag it to another location.	A first guess vector appears with the point near the center of the line, tick marks, and time values at the starting point, current/endpoint, and arrowhead. An initial warning area hatched box appears.	
280.	Press the right arrow key on the keyboard once.	The point is relabeled 'Drag me to Storm' and appears at the starting point of the vector.	
281.	MB1 click and hold the 'Drag me to Storm' point and drag it to another location.	The vector is redrawn. The spacing between the tick marks adjusts accordingly. The hatched warning box remains at its current position.	
282.	In the 'WarnGen' window, select the following: -Track type: One Storm -Edit: Box and Track	The selections are made as indicated by the radio buttons.	
283.	Click MB1 on the 'Track' button under the 'Redraw Box on Screen from:' section.	The hatched box is redrawn on the vector.	
284.	MB1 click and hold on a vertex and dragging it to another location outside the koax's CWA boundary. At the same time, ensure that multiple KOAX counties are included in the warning polygon.	The hatched area expands within the enclosed box up to the CWA boundary but does not cross over the CWA boundary. Multiple KOAX counties are included in the polygon.	
285.	MB1 click on the 'Warned/Hatched Area' button under the 'Redraw Box on Screen from:' section.	The polygon's vertices are redrawn on the vector snapping back to the CWA border while creating additional vertices.	
286.	MB1 click on 'Severe Thunderstorm' in the 'Product type' section.	The selection is made as indicated by the radio button. The BASIS FOR WARNINGS and CALLS TO ACTION sections update to display items applicable for Severe Thunderstorm Warnings.	
287.	Select the 'Duration:' to 10 min.	The duration is set to 10 min. The ending time of the warning updates with the change in duration. The vector contracts and the time at the arrowhead modifies.	

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Step	Action	Result	Pass/Fail
288.	MB1 click within the Optional bullets section and select items such that the following Severe Thunderstorm Template Parameters are highlighted: BASIS FOR WARNING: public reported THREAT: 60mph wind THREAT: Golf ball size hail CALLS TO ACTION: This is a dangerous storm… Then click MB1 on the 'Create Text' button.	The Severe Thunderstorm Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
289.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: SVR Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Severe Thunderstorm Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
290.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Severe Thunderstorm Warning is saved. The text window displays the saved warning.	
291.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMASVROAX' window (not in edit mode).	
292.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
293.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button. Select 'Severe Weather Statement' from the dropdown menu adjacent to the 'Other' radio button and verify the created warning is able to be expired (EXP).	The warning is ingested as verified by observing that the ingested warning can be expired (EXP).	

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Step	Action	Result	Pass/Fail
294.	Select the EXP product.	The storm vector and polygon appear. The polygon is uneditable as indicated by the small triangle vertex points. The bulletins are grayed out.	
295.	MB1 click the 'Create Text' button.	The Severe Thunderstorm Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
296.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: SVS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Severe Thunderstorm Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
297.	Verify the Severe Thunderstorm Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
298.	Verify the Severe Thunderstorm Warning text contains the counties encompassed by the polygon.	The counties are listed in the Severe Thunderstorm Warning statement.	
299.	Verify the Severe Thunderstorm Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.EXP.KOAX.SV.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
300.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
301.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	
302.	Verify the text warning contains a presence of closing $$.	The Severe Thunderstorm Warning text contains a presence of closing $$.	

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Step	Action	Result	Pass/Fail
303.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Severe Thunderstorm Warning is saved. The text window displays the saved warning.	
304.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMASVROAX' window (not in edit mode).	
305.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
306.	Close the Text Warngen: OMASVROAX window.	The Text Warngen: OMASVROAX window closes.	
307.	MB1 click the WarnGen button in the toolbar, select the 'Other' radio button. Select 'Severe Weather Statement' from the dropdown menu adjacent to the 'Other' radio button. Verify in the 'FOLLOWUP' dropdown menu that an expired product (EXP) that appears as follows: 'COR.KOAX.SV.W.xxxx(EXP)'	The warning is ingested as verified by observing that the expired product (EXP) exists in the FOLLOWUP dropdown menu.	
308.	Close the WarnGen GUI.	The WarnGen GUI closes.	
Flash Flood Warning			
Issuing a Flash Flood Warning			
309.	MB1 click on the 'WarnGen' button in the tool bar.	The WarnGen application loads. A 'Drag me to Storm' labeled point displays in the center of the CAVE display. This point is in edit mode. The WarnGen window appears.	
310.	In the main pane, click and hold MB1 on the 'Drag me to Storm' point and drag it to another location.	A southwest-northeast oriented vector appears with the point near the center of the line, tick marks, and time values at the starting point, current/endpoint, and arrowhead. An initial warning area hatched box appears.	
311.	In the 'WarnGen' window, select the following: -Track type: One Storm -Edit: Box and Track	The selections are made as indicated by the radio buttons.	

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Step	Action	Result	Pass/Fail
312.	MB1 click on 'Flash Flood' in the 'Product type' section.	The selection is made as indicated by the radio button. The REPORTED BY and CALLS TO ACTION sections update to display items applicable for Flash Flood Warnings. The storm motion vector is removed from the main display, leaving only the hatched polygon.	
313.	Select the 'Duration:' to 20 min.	The duration is set to 20 min. The ending time of the warning updates with the change in duration.	
314.	MB1 click and hold on a vertex and dragging it to another location outside the koax's CWA boundary. At the same time, ensure that multiple KOAX counties are included in the warning polygon.	The hatched area expands within the enclosed box up to the CWA boundary but does not cross over the CWA boundary. Multiple KOAX counties are included in the polygon. Note: If the polygon encompasses a portion of a county less than a specified percentage of the size of a county, the portion will not be hatched.	
315.	In the WarnGen GUI, MB1 click on the 'Warned/Hatched Area' button under the 'Redraw Box on Screen from:' section.	The polygon's vertices are redrawn on the vector snapping back to the CWA border while creating additional vertices. Portions of the county not hatched, as discussed in step 39, are not included in the updated polygon.	
316.	MB1 within the Optional bullets section, select items such that the following Flash Flood Template Parameters are highlighted: REPORTED BY: Doppler radar indicated CALLS TO ACTION: Urban flooding… CALLS TO ACTION: Nighttime flooding… CALLS TO ACTION: Camper safety… Then click MB1 on the 'Create Text' button.	The Flash Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	

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Step	Action	Result	Pass/Fail
317.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FFW Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Flash Flood Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
318.	Verify the Flash Flood Warning text contains the Flash Flood Template Parameters selected.	The REPORTED BY and CALLS TO ACTION exist in the Flash Flood Warning statement.	
319.	Verify the Flash Flood Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
320.	Verify the Flash Flood Warning text contains the counties encompassed by the polygon. Verify cities in the warning polygon are included in the pathcast.	The counties are listed in the Flash Flood Warning statement. The cities in the warning polygon are included in the warning.	
321.	Verify the Flash Flood Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.NEW.KOAX.FF.W.0001.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ /00000.0.ER.000000T0000Z.000000T0000Z. 000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
322.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
323.	Verify the text warning contains a presence of closing $$.	The Flash Flood Warning text contains a presence of closing $$.	
324.	In the text window, replace the '!**REPORT**!' line with a word or phrase. Replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Flash Flood Warning is saved. The text window displays the saved warning.	

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Step	Action	Result	Pass/Fail
325.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFFWOAX' window (not in edit mode).	
326.	Note the VTEC code (the 'FF.W.xxxx' portion in particular).	FF.W._____	
327.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
328.	Close the Text Warngen: OMAFFWOAX window.	The Text Warngen: OMAFFWOAX window closes.	
329.	MB1 click the WarnGen button in the toolbar and select the 'Flash Flood' radio button. Then MB1 click the 'Correct/Reissue' dropdown menu to verify the created warning is able to be corrected (COR), extended (EXT) or reissued (NEW). Verify three lines similar to the following appear: NEW.KOAX.FF.W.xxxx EXT.KOAX.FF.W.xxxx COR.KOAX.FF.W.xxxx(NEW)	The warning is ingested as verified by observing that the ingested warning can be corrected (COR), extended (EXT) or reissued (NEW).	
330.	Create another Flash Flood Warning by repeating steps 309-325, but choosing different options within the 'WarnGen: Operational' window.	The new Flash Flood Warning displays in the text window.	
331.	Verify the VTEC code in the warning is different from the first Flash Flood Warning (e.g., FF.W.0001 becomes FF.W.0002).	The VTEC code from the first warning was persisted. The second Flash Flood Warning contains updated VTEC coding.	
332.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
333.	Close the Text Warngen: OMAFFWOAX window.	The Text Warngen: OMAFFWOAX window closes.	

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Step	Action	Result	Pass/Fail
334.	MB1 click the WarnGen button in the toolbar and select the 'Flash Flood' radio button. Then MB1 click the 'Correct/Reissue' dropdown menu to verify the created warning is able to be corrected (COR), extended (EXT) or reissued (NEW). Verify three lines similar to the following appear: COR.KOAX.FF.W.xxxx(NEW) NEW.KOAX.FF.W.xxxx EXT.KOAX.FF.W.xxxx	The warning is ingested as verified by observing that the ingested warning can be corrected (COR), extended (EXT) or reissued (NEW).	
Correcting a Flash Flood Warning (COR)			
335.	In the WarnGen GUI, from the 'Correct/Reissue' dropdown, select the 'COR' product.	The polygon appears. The polygon is uneditable as indicated by the small triangle vertex points.	
336.	Change the bulletins to be displayed in the warning text product. Then MB1 click the 'Create Text' button.	The Flash Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
337.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FFW Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Flash Flood Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
338.	Verify the Flash Flood Warning text contains the Flash Flood Template Parameters selected.	The BASIS FOR WARNING and CALLS TO ACTION exist in the Flash Flood Warning statement.	
339.	Verify the Flash Flood Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
340.	Verify the Flash Flood Warning text contains the counties encompassed by the polygon. Verify cities in the warning polygon are included in the pathcast.	The counties are listed in the Flash Flood Warning statement. The cities in the warning polygon are included in the warning.	

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Step	Action	Result	Pass/Fail
341.	Verify the Flash Flood Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.COR.KOAX.FF.W.xxxx.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ /00000.0.ER.000000T0000Z.000000T0000Z. 000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
342.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
343.	Verify the text warning contains a presence of closing $$.	The Flash Flood Warning text contains a presence of closing $$.	
344.	In the text window, replace the '!**REPORT**!' line with a word or phrase. Replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Flash Flood Warning is saved. The text window displays the saved warning.	
345.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFFWOAX' window (not in edit mode).	
346.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
347.	Close the Text Warngen: OMAFFWOAX window.	The Text Warngen: OMAFFWOAX window closes.	
348.	MB1 click the WarnGen button in the toolbar, select the Flash Flood radio button, and verify a line similar to the following appears: 'COR.KOAX.FF.W.xxxx(NEW)'	Verified.	
Continuing a Flash Flood Warning (CON) by Issuing a Follow-Up for a Flash Flood Warning (FFS)			
349.	In the WarnGen GUI, MB1 click on the 'Other' radio button. Select 'Flash Flood Statement' from the dropdown menu adjacent to the 'Other' radio button.	'FOLLOWUP' appears in the dropdown menu.	
350.	MB1 click on the 'FOLLOWUP' dropdown menu and verify the 'CON' and 'CAN' options are available.	The list includes the 'CON' and 'CAN' options.	

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Step	Action	Result	Pass/Fail
351.	MB1 click the 'CON' option.	The polygon of the original warning appears on the main pane.	
352.	Modify the warning polygon, but do not remove any counties from the original warning polygon. MB1 click the 'Warned/Hatched Area' button. Note: The polygon can only be reduced in size. Select the following warning bulletins: SVR THREAT: Trained spotters reported CALLS TO ACTION: Turn around…dont drown Then MB1 click the 'Create Text' button.	The Flash Flood Statement text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
353.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FFS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Flash Flood Statement text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
354.	Verify the Flash Flood Statement text contains the Flash Flood Template Parameters selected.	The SVR THREAT, THREAT and CALLS TO ACTION exist in the Flash Flood Statement text.	
355.	Verify the Flash Flood Statement text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
356.	Verify the Flash Flood Statement text contains the counties encompassed by the polygon.	The counties are listed in the Flash Flood Statement text.	
357.	Verify the Flash Flood Statement text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.CON.KOAX.FF.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /00000.0.ER.000000T0000Z.000000T0000Z. 000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
358.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	

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Step	Action	Result	Pass/Fail
359.	Verify the text warning contains a presence of closing $$.	The Flash Flood Statement text contains a presence of closing $$.	
360.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Flash Flood Statement is saved. The text window displays the saved warning.	
361.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFFSOAX' window (not in edit mode).	
362.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
363.	Close the Text Warngen: OMAFFSOAX window.	The Text Warngen: OMAFFSOAX window closes.	
364.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button, Select 'Flash Flood Statement' from the dropdown menu adjacent to the 'Other' radio button. Then MB1 click the 'FOLLOWUP' dropdown menu. Verify a line similar to the following appears: 'COR.KOAX.FF.W.xxxx(CON)	Verified.	
Extending a Flash Flood Warning (EXT)			
365.	In the WarnGen GUI, MB1 click the 'Flash Flood' radio button. Then MB1 click the 'Correct/Extend/Reissue' dropdown menu and select the 'EXT' product.	The polygon appears. The polygon is editable as indicated by the small triangle vertex points.	
366.	Modify the polygon, the duration and bulletins to be displayed in the warning text product. Then MB1 click the 'Create Text' button.	The Flash Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	

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Step	Action	Result	Pass/Fail
367.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FFW Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Flash Flood Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
368.	Verify the Flash Flood Warning text contains the Flash Flood Template Parameters selected.	The BASIS FOR WARNING and CALLS TO ACTION exist in the Flash Flood Warning statement.	
369.	Verify the Flash Flood Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
370.	Verify the Flash Flood Warning text contains the counties encompassed by the polygon. Verify cities in the warning polygon are included in the pathcast.	The counties are listed in the Flash Flood Warning statement. The cities in the warning polygon are included in the warning.	
371.	Verify the Flash Flood Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.EXT.KOAX.FF.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /00000.0.ER.000000T0000Z.000000T0000Z. 000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
372.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
373.	Verify the text warning contains a presence of closing $$.	The Flash Flood Warning text contains a presence of closing $$.	
374.	In the text window, replace the '!**REPORT**!' line with a word or phrase. Replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Flash Flood Warning is saved. The text window displays the saved warning.	

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Step	Action	Result	Pass/Fail
375.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFFWOAX' window (not in edit mode).	
376.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
377.	Close the Text Warngen: OMAFFWOAX window.	The Text Warngen: OMAFFWOAX window closes.	
378.	MB1 click the WarnGen button in the toolbar, select the Flash Flood radio button, MB1 click the 'Correct/Extend/Reissue' dropdown menu and verify a line similar to the following appears: 'COR.KOAX.FF.W.xxxx(EXT)'	Verified.	
Continuing/Canceling a Flash Flood Warning (CON/CAN)			
379.	In the WarnGen GUI, MB1 click on the 'Other' radio button. Select 'Flash Flood Statement' from the dropdown menu adjacent to the 'Other' radio button.	'FOLLOWUP' appears in the dropdown menu.	
380.	MB1 click on the 'FOLLOWUP' dropdown menu and verify the 'CON' and 'CAN' options are available.	The list includes the 'CON' and 'CAN' options.	
381.	MB1 click the 'CON' option.	The vector and polygon of the original warning appear on the main pane.	
382.	Modify the warning polygon to remove at least one county from the original warning polygon. Select the following warning bulletins: REPORTED BY: public reported CALLS TO ACTION: Nighttime flooding… Then MB1 click the 'Create Text' button.	The Flash Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
383.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FFS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Flash Flood Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	

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Step	Action	Result	Pass/Fail
384.	Verify the Flash Flood Warning text contains the Flash Flood Template Parameters selected.	The REPORTED BY and CALLS TO ACTION exist in the Flash Flood Warning statement.	
385.	Verify the Flash Flood Warning Statement text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
386.	Verify the Flash Flood Warning text contains the counties encompassed by the polygon.	The counties are listed in the Flash Flood Warning statement.	
387.	Verify the Flash Flood Warning text contains the VTEC code above the BULLETIN section. The 2 lines of VTEC code should be in the following format: /O.CAN.KOAX.FF.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /00000.0.ER.000000T0000Z.000000T0000Z. 000000T0000Z.00/ /O.CON.KOAX.FF.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /00000.0.ER.000000T0000Z.000000T0000Z. 000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
388.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
389.	Verify the text warning contains a presence of closing $$.	The Flash Flood Warning text contains a presence of closing $$.	
390.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Flash Flood Warning is saved. The text window displays the saved warning.	
391.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFFSOAX' window (not in edit mode).	
392.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
393.	Close the Text Warngen: OMAFFSOAX window.	The Text Warngen: OMAFFSOAX window closes.	

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Step	Action	Result	Pass/Fail
394.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button. Select 'Flash Flood Statement' from the dropdown menu adjacent to the 'Other' radio button. Then MB1 click the 'FOLLOWUP' dropdown menu. Verify two lines similar to the following appear: 'COR.KOAX.FF.W.xxxx(CON)'	Verified.	
Reissuing a Flash Flood Warning (NEW)			
395.	In the WarnGen GUI, MB1 click on the 'Flash Flood' radio button.	'Extend/Reissue' appears in the dropdown menu.	
396.	From the 'Extend/Reissue' dropdown, select the 'NEW' product.	The polygon appears. The polygon is editable.	
397.	Modify the polygon, duration and bulletins for the warning text product. Then MB1 click the 'Create Text' button.	The Flash Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
398.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FFW Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Flash Flood Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
399.	Verify the Flash Flood Warning text contains the Flash Flood Template Parameters selected.	The BASIS FOR WARNING and CALLS TO ACTION exist in the Flash Flood Warning statement.	
400.	Verify the Flash Flood Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
401.	Verify the Flash Flood Warning text contains the counties encompassed by the polygon. Verify cities in the warning polygon are included in the pathcast.	The counties are listed in the Flash Flood Warning statement. The cities in the warning polygon are included in the warning.	

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Step	Action	Result	Pass/Fail
402.	Verify the Flash Flood Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.NEW.KOAX.FF.W.xxxx.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ /OOOOO.O.ER.000000T0000Z-000000T0000Z.000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
403.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
404.	Verify the text warning contains a presence of closing $$.	The Flash Flood Warning text contains a presence of closing $$.	
405.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Flash Flood Warning is saved. The text window displays the saved warning.	
406.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFFWOAX' window (not in edit mode).	
407.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
408.	Close the Text Warngen: OMAFFWOAX window.	The Text Warngen: OMAFFWOAX window closes.	
409.	MB1 click the WarnGen button in the toolbar, select the Flash Flood radio button, and verify three lines similar to the following appear: 'COR.KOAX.FF.W.xxxx(NEW)' 'NEW.KOAX.FF.W.xxxx' 'EXT.KOAX.FF.W.xxxx'	Verified.	
Cancelling a Flash Flood Warning (CAN)			
410.	In the WarnGen GUI, MB1 click the 'Other' radio button. Select 'Flash Flood Statement' from the dropdown menu adjacent to the 'Other' radio button. From the 'FOLLOWUP' dropdown menu, select the 'CAN' product.	The polygon appears. The polygon is uneditable as indicated by the small triangle vertex points. The bulletins are grayed out.	

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Step	Action	Result	Pass/Fail
411.	MB1 click the 'Create Text' button.	The Flash Flood Statement text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
412.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FFS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Flash Flood Statement text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
413.	Verify the Flash Flood Statement text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
414.	Verify the Flash Flood Statement text contains the counties encompassed by the polygon.	The counties are listed in the Flash Flood Statement text.	
415.	Verify the Flash Flood Statement text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.CAN.KOAX.FF.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /OOOOO.O.ER.000000T0000Z-000000T0000Z.000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
416.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
417.	Verify the text warning contains a presence of closing $$.	The Flash Flood Statement text contains a presence of closing $$.	
418.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Flash Flood Statement is saved. The text window displays the saved warning.	

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Step	Action	Result	Pass/Fail
419.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFFSOAX' window (not in edit mode).	
420.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
421.	Close the Text Warngen: OMAFFSOAX window.	The Text Warngen: OMAFFSOAX window closes.	
Expiring a Flash Flood Warning (EXP)			
422.	MB1 click on the 'WarnGen' button in the tool bar.	The WarnGen application loads. A 'Drag me to Storm' labeled point displays in the center of the CAVE display. This point is in edit mode. The WarnGen window appears.	
423.	In the main pane, click and hold MB1 on the 'Drag me to Storm' point and drag it to another location.	A southwest-northeast oriented vector appears with the point near the center of the line, tick marks, and time values at the starting point, current/endpoint, and arrowhead. An initial warning area hatched box appears.	
424.	In the 'WarnGen' window, select the following: -Track type: One Storm -Edit: Box and Track	The selections are made as indicated by the radio buttons.	
425.	MB1 click on 'Flash Flood' in the 'Product type' section.	The selection is made as indicated by the radio button. The REPORTED BY and CALLS TO ACTION sections update to display items applicable for Flash Flood Warnings. The storm motion vector is removed from the main display, leaving only the hatched polygon.	
426.	Select the 'Duration:' to 15 min.	The duration is set to 15 min. The ending time of the warning updates with the change in duration.	

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Step	Action	Result	Pass/Fail
427.	MB1 click and hold on a vertex and dragging it to another location outside the koax's CWA boundary. At the same time, ensure that multiple KOAX counties are included in the warning polygon.	The hatched area expands within the enclosed box up to the CWA boundary but does not cross over the CWA boundary. Multiple KOAX counties are included in the polygon. Note: If the polygon encompasses a portion of a county less than a specified percentage of the size of a county, the portion will not be hatched.	
428.	In the WarnGen GUI, MB1 click on the 'Warned/Hatched Area' button under the 'Redraw Box on Screen from:' section.	The polygon's vertices are redrawn on the vector snapping back to the CWA border while creating additional vertices. Portions of the county not hatched, as discussed in step 39, are not included in the updated polygon.	
429.	MB1 within the Optional bullets section, select items such that the following Flash Flood Template Parameters are highlighted: REPORTED BY: Doppler radar indicated CALLS TO ACTION: Urban flooding… CALLS TO ACTION: Nighttime flooding… CALLS TO ACTION: Camper safety… Then click MB1 on the 'Create Text' button.	The Flash Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
430.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FFW Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Flash Flood Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
431.	In the text window, replace the '!**REPORT**!' line with a word or phrase. Replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Flash Flood Warning is saved. The text window displays the saved warning.	

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Step	Action	Result	Pass/Fail
432.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFFWOAX' window (not in edit mode).	
433.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
434.	Close the Text Warngen: OMAFFWOAX window.	The Text Warngen: OMAFFWOAX window closes.	
435.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button. Select 'Flash Flood Statement' from the dropdown menu adjacent to the 'Other' radio button. Then MB1 click the 'FOLLOWUP' dropdown menu to verify the created warning is able to expired (EXP). EXP.KOAX.FF.W.xxxx	The warning is ingested as verified by observing that the ingested warning can be expired (EXP).	
436.	Select the EXP product.	The polygon appears. The polygon is uneditable as indicated by the small triangle vertex points. The bulletins are grayed out.	
437.	MB1 click the 'Create Text' button.	The Flash Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
438.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FFS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Flash Flood Statement text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
439.	Verify the Flash Flood Statement text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
440.	Verify the Flash Flood Statement text contains the counties encompassed by the polygon.	The counties are listed in the Flash Flood Statement text.	

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Step	Action	Result	Pass/Fail
441.	Verify the Flash Flood Statement text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.EXP.KOAX.FF.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /OOOOO.O.ER.000000T0000Z-000000T0000Z.000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
442.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
443.	Verify the text warning contains a presence of closing $$.	The Flash Flood Statement text contains a presence of closing $$.	
444.	Replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Flash Flood Statement is saved. The text window displays the saved warning.	
445.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFFSOAX' window (not in edit mode).	
446.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
447.	Close the Text Warngen: OMAFFSOAX window.	The Text Warngen: OMAFFSOAX window closes.	
448.	MB1 click the WarnGen button in the toolbar, select the 'Other' radio button. Select 'Flash Flood Statement' from the dropdown menu adjacent to the 'Other' radio button. Verify in the 'FOLLOWUP' dropdown menu that an expired product (EXP) similar to the following appears: 'COR.KOAX.FF.W.xxxx(EXP)'	The warning is ingested as verified by observing that the expired product (EXP) exists in the Update List dropdown menu.	
449.	Close the WarnGen GUI.	The WarnGen GUI closes.	

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Step	Action	Result	Pass/Fail
Extreme Wind Warning			
Issuing an Extreme Wind Warning			
450.	MB1 click on the 'WarnGen' button in the tool bar.	The WarnGen application loads. A 'Drag me to Storm' labeled point displays in the center of the CAVE display. This point is in edit mode. The WarnGen window appears.	
451.	In the main pane, click and hold MB1 on the 'Drag me to Storm' point and drag it to another location.	A southwest-northeast oriented vector appears with the point near the center of the line, tick marks, and time values at the starting point, current/endpoint, and arrowhead. An initial warning area hatched box appears.	
452.	Press the right arrow key on the keyboard once.	The point is relabeled 'Drag me to Storm' and appears at the starting point of the vector.	
453.	MB1 click and hold the 'Drag me to Storm' point and drag it to another location.	The vector rotates accordingly. The spacing between the tick marks adjusts accordingly. The hatched warning box remains at its current position.	
454.	In the 'WarnGen' window, select the following: -Track type: One Storm -Edit: Box and Track	The selections are made as indicated by the radio buttons.	
455.	Click MB1 on the 'Track' button under the 'Redraw Box on Screen from:' section.	The hatched box is redrawn on the vector.	
456.	MB1 click and hold on a vertex and dragging it to another location outside the koax's CWA boundary. At the same time, ensure that multiple KOAX counties are included in the warning polygon.	The hatched area expands within the enclosed box up to the CWA boundary but does not cross over the CWA boundary. Multiple KOAX counties are included in the polygon. Note: If the polygon encompasses a portion of a county less than a specified percentage of the size of a county, the portion will not be hatched.	
457.	MB1 click on the 'Warned/Hatched Area' button under the 'Redraw Box on Screen from:' section.	The polygon's vertices are redrawn on the vector snapping back to the CWA border while creating additional vertices. Portions of the county not hatched, as discussed in step 39, are not included in the updated polygon.	

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Step	Action	Result	Pass/Fail
458.	MB1 click on 'Other' in the 'Product type' section. Then select 'Extreme Wind Warning' from the dropdown menu adjacent to the 'Other' radio button.	The selection is made as indicated by the radio button. The BASIS FOR WARNINGS and CALLS TO ACTION sections update to display items applicable for Extreme Wind Warnings.	
459.	Select the 'Duration:' to 45 min.	The duration is set to 45 min. The ending time of the warning updates with the change in duration. The vector contracts and the time at the arrowhead are modified.	
460.	MB1 within the Optional bullets section, select items such that the following Extreme Wind Warning Template Parameters are highlighted: BASIS FOR WARNING: Doppler radar indicated CALLS TO ACTION: CTA – Take cover now Then click MB1 on the 'Create Text' button.	The Extreme Wind Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
461.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: EWW Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Extreme Wind Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
462.	Verify the Extreme Wind Warning text contains the Extreme Wind Warning Template Parameters selected.	The BASIS FOR WARNING and CALLS TO ACTION exist in the Extreme Wind Warning statement.	
463.	Verify the Extreme Wind Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
464.	Verify the Extreme Wind Warning text contains the counties encompassed by the polygon. Verify cities near the warning vector are included in the pathcast.	The counties are listed in the Extreme Wind Warning statement. The cities near the warning vector are included in the warning.	

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Step	Action	Result	Pass/Fail
465.	Verify the Extreme Wind Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.NEW.KOAX.EW.W.0001.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
466.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
467.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	
468.	Verify the text warning contains a presence of closing $$.	The Extreme Wind Warning text contains a presence of closing $$.	
469.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Extreme Wind Warning is saved. The text window displays the saved warning.	
470.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAEWWOAX' window (not in edit mode).	
471.	Note the VTEC code (the 'EW.W.xxxx' portion in particular).	EW.W._____	
472.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
473.	Close the Text Warngen: OMAEWWOAX window.	The Text Warngen: OMAEWWOAX window closes.	
474.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button. MB1 click the 'Extreme Wind Warning' option. Then MB1 click the 'Followup' dropdown menu to verify the created warning is able to be corrected (COR) or reissued (NEW).	The warning is ingested as verified by observing that the ingested warning can be corrected (COR) or reissued (NEW).	
475.	Create another Extreme Wind Warning by repeating steps 450-470, but choosing different options within the 'WarnGen: Operational' window.	The new Extreme Wind Warning displays in the text window.	

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Step	Action	Result	Pass/Fail
476.	Verify the VTEC code in the warning is different from the first Extreme Wind Warning (e.g., EW.W.0001 becomes EW.W.0002).	The VTEC code from the first warning was persisted. The second Extreme Wind Warning contains updated VTEC coding.	
477.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
478.	Close the Text Warngen: OMAEWWOAX window.	The Text Warngen: OMAEWWOAX window closes.	
479.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button. Then MB1 click the 'Correct/Reissue' dropdown menu to verify the created warning is able to be corrected (COR) or reissued (NEW). Verify two lines similar to the following appear: COR.KOAX.EW.W.xxxx(NEW) NEW.KOAX.EW.W.xxxx	The warning is ingested as verified by observing that the ingested warning can be corrected (COR) or reissued (NEW).	
Correcting an Extreme Wind Warning (COR)			
480.	In the WarnGen GUI, from the 'Correct/Reissue' dropdown, select the 'COR' product.	The storm vector and polygon appear. The polygon is uneditable as indicated by the small triangle vertex points.	
481.	Change the bulletins to be displayed in the warning text product. Then MB1 click the 'Create Text' button.	The Extreme Wind Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
482.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: EWW Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Extreme Wind Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
483.	Verify the Extreme Wind Warning text contains the Extreme Wind Warning Template Parameters selected.	The BASIS FOR WARNING and CALLS TO ACTION exist in the Extreme Wind Warning statement.	

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Step	Action	Result	Pass/Fail
484.	Verify the Extreme Wind Warning text contains the original date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
485.	Verify the Extreme Wind Warning text contains the counties encompassed by the polygon. Verify cities near the warning vector are included in the pathcast.	The counties are listed in the Extreme Wind Warning statement. The cities near the warning vector are included in the warning.	
486.	Verify the Extreme Wind Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.COR.KOAX.EW.W.xxxx.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
487.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
488.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	
489.	Verify the text warning contains a presence of closing $$.	The Extreme Wind Warning text contains a presence of closing $$.	
490.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Extreme Wind Warning is saved. The text window displays the saved warning.	
491.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAEWWOAX' window (not in edit mode).	
492.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
493.	Close the Text Warngen: OMAEWWOAX window.	The Text Warngen: OMAEWWOAX window closes.	
494.	MB1 click the WarnGen button in the toolbar, select the Other radio button, and verify a line similar to the following appears: 'COR.KOAX.EW.W.xxxx(NEW)'	Verified.	

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Step	Action	Result	Pass/Fail
Continuing an Extreme Wind Warning (CON) by Issuing a Follow-Up for an Extreme Wind Warning (SVS)			
495.	In the WarnGen GUI, MB1 click on the 'Other' radio button. Then select 'Extreme Wind SVS'.	'FOLLOWUP' appears in the dropdown menu.	
496.	MB1 click on the 'FOLLOWUP' dropdown menu and verify the 'CON' and 'CAN' options are available.	The list includes the 'CON' and 'CAN' options.	
497.	MB1 click the 'CON' option.	The vector and polygon of the original warning appear on the main pane.	
498.	Modify the warning polygon, but do not remove any counties from the original warning polygon. MB1 click the 'Warned/Hatched Area' button. Note: The polygon can only be reduced in size. Select additional warning bulletins. Then MB1 click the 'Create Text' button.	The Extreme Wind Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
499.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: SVS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Extreme Wind Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
500.	Verify the Extreme Wind Warning text contains the Extreme Wind Warning Template Parameters selected.	The BASIS FOR WARNING and CALLS TO ACTION exist in the Extreme Wind Warning statement.	
501.	Verify the Extreme Wind Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
502.	Verify the Extreme Wind Warning text contains the counties encompassed by the polygon. Verify cities near the warning vector are included in the pathcast.	The counties are listed in the Extreme Wind Warning statement. The cities near the warning vector are included in the warning.	
503.	Verify the Extreme Wind Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.CON.KOAX.EW.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	

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Step	Action	Result	Pass/Fail
504.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
505.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	
506.	Verify the text warning contains a presence of closing $$.	The Extreme Wind Warning text contains a presence of closing $$.	
507.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Extreme Wind Warning is saved. The text window displays the saved warning.	
508.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAEWWOAX' window (not in edit mode).	
509.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
510.	Close the Text Warngen: OMASVSOAX window.	The Text Warngen: OMASVSOAX window closes.	
511.	MB1 click the WarnGen button in the toolbar, select the 'Other' radio button and select 'Extreme Wind SVS'. Then MB1 click the 'FOLLOWUP' dropdown menu. Verify a line similar to the following appears: 'COR.KOAX.EW.W.xxxx(CON)	Verified.	
Continuing/Canceling an Extreme Wind Warning (CON/CAN)			
512.	In the WarnGen GUI, MB1 click on the 'Other' radio button. Then MB1 click 'Extreme Wind SVS'.	'FOLLOWUP' appears in the dropdown menu.	
513.	MB1 click on the 'FOLLOWUP' dropdown menu and verify the 'CON' and 'CAN' options are available.	The list includes the 'CON' and 'CAN' options.	
514.	MB1 click the 'CON' option.	The vector and polygon of the original warning appear on the main pane.	
515.	Modify the warning polygon to remove at least one county from the original warning polygon. Select additional warning bulletins. Then MB1 click the 'Create Text' button.	The Extreme Wind Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	

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Step	Action	Result	Pass/Fail
516.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: SVS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Extreme Wind Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
517.	Verify the Extreme Wind Warning text contains the Extreme Wind Warning Template Parameters selected.	The BASIS FOR WARNING and CALLS TO ACTION exist in the Extreme Wind Warning statement.	
518.	Verify the Extreme Wind Warning statement text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
519.	Verify the Extreme Wind Warning text contains the counties encompassed by the polygon. Verify cities near the warning vector are included in the pathcast.	The counties are listed in the Extreme Wind Warning statement. The cities near the warning vector are included in the warning.	
520.	Verify the Extreme Wind Warning text contains the VTEC code above the BULLETIN section. The 2 lines of VTEC code should be in the following format: /O.CAN.KOAX.EW.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /O.CON.KOAX.EW.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
521.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
522.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	
523.	Verify the text warning contains a presence of closing $$.	The Extreme Wind Warning text contains a presence of closing $$.	
524.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Extreme Wind Warning is saved. The text window displays the saved warning.	

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Step	Action	Result	Pass/Fail
525.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMASVSOAX' window (not in edit mode).	
526.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
527.	Close the Text Warngen: OMASVSOAX window.	The Text Warngen: OMASVSOAX window closes.	
528.	MB1 click the WarnGen button in the toolbar, select the 'Other' radio button and select 'Extreme Wind SVS'. Then MB1 click the 'FOLLOWUP' dropdown menu. Verify two lines similar to the following appear: 'COR.KOAX.EW.W.xxxx(CON)'	Verified.	
Reissuing an Extreme Wind Warning (NEW)			
529.	In the WarnGen GUI, MB1 click on the 'Other' radio button. Then MB1 click 'Extreme Wind Warning'.	'Update List' appears in the dropdown menu.	
530.	From the 'Update List' dropdown, select the 'NEW' product.	The storm vector and polygon appear. The polygon is editable.	
531.	Modify the polygon, duration and bulletins for the warning text product. Then MB1 click the 'Create Text' button.	The Extreme Wind Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
532.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: EWW Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Extreme Wind Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
533.	Verify the Extreme Wind Warning text contains the Extreme Wind Warning Template Parameters selected.	The BASIS FOR WARNING and CALLS TO ACTION exist in the Extreme Wind Warning statement.	

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Step	Action	Result	Pass/Fail
534.	Verify the Extreme Wind Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
535.	Verify the Extreme Wind Warning text contains the counties encompassed by the polygon. Verify cities near the warning vector are included in the pathcast.	The counties are listed in the Extreme Wind Warning statement. The cities near the warning vector are included in the warning.	
536.	Verify the Extreme Wind Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.NEW.KOAX.EW.W.xxxx.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
537.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
538.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	
539.	Verify the text warning contains a presence of closing $$.	The Extreme Wind Warning text contains a presence of closing $$.	
540.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Extreme Wind Warning is saved. The text window displays the saved warning.	
541.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAEWWOAX' window (not in edit mode).	
542.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
543.	Close the Text Warngen: OMAEWWOAX window.	The Text Warngen: OMAEWWOAX window closes.	
544.	MB1 click the WarnGen button in the toolbar, select the 'Other' radio button, select the 'Extreme Wind Warning' option, and verify two lines similar to the following appear: 'COR.KOAX.EW.W.xxxx(NEW)' 'NEW.KOAX.EW.W.xxxx'	Verified.	

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Step	Action	Result	Pass/Fail
Cancelling an Extreme Wind Warning (CAN)			
545.	In the WarnGen GUI, MB1 click the 'Other' radio button. MB1 click the 'Extreme Wind SVS' option. From the 'FOLLOWUP' dropdown menu, select the 'CAN' product.	The storm vector and polygon appear. The polygon is uneditable as indicated by the small triangle vertex points. The bulletins are grayed out.	
546.	MB1 click the 'Create Text' button.	The Extreme Wind Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
547.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: SVS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Extreme Wind Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
548.	Verify the Extreme Wind Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
549.	Verify the Extreme Wind Warning text contains the counties encompassed by the polygon.	The counties are listed in the Extreme Wind Warning statement.	
550.	Verify the Extreme Wind Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.CAN.KOAX.EW.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
551.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
552.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	
553.	Verify the text warning contains a presence of closing $$.	The Extreme Wind Warning text contains a presence of closing $$.	

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Step	Action	Result	Pass/Fail
554.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Extreme Wind Warning is saved. The text window displays the saved warning.	
555.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMASVSOAX' window (not in edit mode).	
556.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
557.	Close the Text Warngen: OMASVSOAX window.	The Text Warngen: OMASVSOAX window closes.	
Expiring an Extreme Wind Warning (EXP)			
558.	Open a terminal and navigate to the eww_default.cfg file (e.g., cave/etc/warngen). Then type 'ls' to view the files.	The eww_default.cfg file is present.	
559.	Modify the file (vi) by adding '<duration>10</duration>' Under the <durations> section.	The modifications are made.	
560.	Save the changes (wq!).	The modifications are saved.	
561.	MB1 click on the 'WarnGen' button in the tool bar.	The WarnGen application loads. A 'Drag me to Storm' labeled point displays in the center of the CAVE display. This point is in edit mode. The WarnGen window appears.	
562.	In the main pane, click and hold MB1 on the 'Drag me to Storm' point and drag it to another location.	A first guess vector appears with the point near the center of the line, tick marks, and time values at the starting point, current/endpoint, and arrowhead. An initial warning area hatched box appears.	
563.	Press the right arrow key on the keyboard once.	The point is relabeled 'Drag me to Storm' and appears at the starting point of the vector.	
564.	MB1 click and hold the 'Drag me to Storm' point and drag it to another location.	The vector is redrawn. The spacing between the tick marks adjusts accordingly. The hatched warning box remains at its current position.	

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Step	Action	Result	Pass/Fail
565.	In the 'WarnGen' window, select the following: -Track type: One Storm -Edit: Box and Track	The selections are made as indicated by the radio buttons.	
566.	Click MB1 on the 'Track' button under the 'Redraw Box on Screen from:' section.	The hatched box is redrawn on the vector.	
567.	MB1 click and hold on a vertex and dragging it to another location outside the koax's CWA boundary. At the same time, ensure that multiple KOAX counties are included in the warning polygon.	The hatched area expands within the enclosed box up to the CWA boundary but does not cross over the CWA boundary. Multiple KOAX counties are included in the polygon.	
568.	MB1 click on the 'Warned/Hatched Area' button under the 'Redraw Box on Screen from:' section.	The polygon's vertices are redrawn on the vector snapping back to the CWA border while creating additional vertices.	
569.	MB1 click on 'Other' in the 'Product type' section. Select 'Extreme Wind Warning' from the dropdown menu.	The selection is made as indicated by the radio buttons. The BASIS FOR WARNINGS and CALLS TO ACTION sections update to display items applicable for Extreme Wind Warnings.	
570.	Select the 'Duration:' to 10 min.	The duration is set to 10 min. The ending time of the warning updates with the change in duration. The vector contracts and the time at the arrowhead modifies.	
571.	Select items such that the following Extreme Wind Warning Template Parameters are highlighted: BASIS FOR WARNING: Doppler radar indicated CALLS TO ACTION: CTA – Take cover now Then click MB1 on the 'Create Text' button.	The Extreme Wind Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
572.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: EWW Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Extreme Wind Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	

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Step	Action	Result	Pass/Fail
573.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Extreme Wind Warning is saved. The text window displays the saved warning.	
574.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAEWWOAX' window (not in edit mode).	
575.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
576.	Close the Text Warngen: OMAEWWOAX window.	The Text Warngen: OMAEWWOAX window closes.	
577.	MB1 click the WarnGen button in the toolbar, select the 'Other' radio button, select the 'Extreme Wind SVS' option from the dropdown menu and verify the created warning is able to be expired (EXP).	The warning is ingested as verified by observing that the ingested warning can be expired (EXP).	
578.	Select the EXP product.	The storm vector and polygon appear. The polygon is uneditable as indicated by the small triangle vertex points. The bulletins are grayed out.	
579.	MB1 click the 'Create Text' button.	The Extreme Wind Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
580.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: SVS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Extreme Wind Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
581.	Verify the Extreme Wind Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	

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Step	Action	Result	Pass/Fail
582.	Verify the Extreme Wind Warning text contains the counties encompassed by the polygon.	The counties are listed in the Extreme Wind Warning statement.	
583.	Verify the Extreme Wind Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.EXP.KOAX.EW.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
584.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
585.	Verify the location and motion of the weather event exists below the LAT…LON line in the text warning product.	The location and motion of the weather event exists below the LAT…LON line.	
586.	Verify the text warning contains a presence of closing $$.	The Extreme Wind Warning text contains a presence of closing $$.	
587.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Extreme Wind Warning is saved. The text window displays the saved warning.	
588.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMASVSOAX' window (not in edit mode).	
589.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
590.	Close the Text Warngen: OMASVSOAX window.	The Text Warngen: OMASVSOAX window closes.	
591.	MB1 click the WarnGen button in the toolbar, select the 'Other' radio button. Select 'Extreme Wind SVS' from the dropdown menu. Verify in the Update List dropdown menu that an expired product (EXP) line similar to the following appears: 'COR.KOAX.EW.W.xxxx(EXP)'	The warning is ingested as verified by observing that the expired product (EXP) exists in the Update List dropdown menu.	
592.	Close the WarnGen GUI.	The WarnGen GUI closes.	

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Step	Action	Result	Pass/Fail
Non-Convective Flash Flood Warning			
Issuing a Non-Convective Flash Flood Warning			
593.	MB1 click on the 'WarnGen' button in the tool bar.	The WarnGen application loads. A 'Drag me to Storm' labeled point displays in the center of the CAVE display. This point is in edit mode. The WarnGen window appears.	
594.	In the main pane, click and hold MB1 on the 'Drag me to Storm' point and drag it to another location.	A southwest-northeast oriented vector appears with the point near the center of the line, tick marks, and time values at the starting point, current/endpoint, and arrowhead. An initial warning area hatched box appears.	
595.	In the 'WarnGen' window, select the following: -Track type: One Storm -Edit: Box and Track	The selections are made as indicated by the radio buttons.	
596.	MB1 click on 'Other' in the 'Product type' section. Select 'non-convective FFW (Dam Break)' from the dropdown menu adjacent to the 'Other' radio button.	The selection is made as indicated by the radio button. The PRIMARY CAUSE, DAM FAILURE REPORTED BY and CALLS TO ACTION sections update to display items applicable for Non-Convective Flash Flood Warnings. The storm motion vector is removed from the main display, leaving only the hatched polygon.	
597.	Select the 'Duration:' to 20 min.	The duration is set to 20 min. The ending time of the warning updates with the change in duration.	
598.	MB1 click and hold on a vertex and dragging it to another location outside the koax's CWA boundary. At the same time, ensure that multiple KOAX counties are included in the warning polygon.	The hatched area expands within the enclosed box up to the CWA boundary but does not cross over the CWA boundary. Multiple KOAX counties are included in the polygon. Note: If the polygon encompasses a portion of a county less than a specified percentage of the size of a county, the portion will not be hatched.	

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Step	Action	Result	Pass/Fail
599.	In the WarnGen GUI, MB1 click on the 'Warned/Hatched Area' button under the 'Redraw Box on Screen from:' section.	The polygon's vertices are redrawn on the vector snapping back to the CWA border while creating additional vertices. Portions of the county not hatched, as discussed in step 39, are not included in the updated polygon.	
600.	MB1 within the Optional bullets section, select items such that the following Non-Convective Flash Flood Template Parameters are highlighted: PRIMARY CAUSE: levee failure DAM FAILURE REPORTED BY: law enforcement CALLS TO ACTION: Do not drive into water Then click MB1 on the 'Create Text' button.	The Non-Convective Flash Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
601.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FFW Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Non-Convective Flash Flood Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
602.	Verify the Non-Convective Flash Flood Warning text contains the Non-Convective Flash Flood Template Parameters selected.	The PRIMARY CAUSE, DAM FAILURE REPORTED BY and CALLS TO ACTION exist in the Non-Convective Flash Flood Warning statement.	
603.	Verify the Non-Convective Flash Flood Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
604.	Verify the Non-Convective Flash Flood Warning text contains the counties encompassed by the polygon. Verify cities in the warning polygon are included in the pathcast.	The counties are listed in the Non-Convective Flash Flood Warning statement. The cities in the warning polygon are included in the warning.	

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Step	Action	Result	Pass/Fail
605.	Verify the Non-Convective Flash Flood Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.NEW.KOAX.FF.W.0001.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ /00000.0.DM.000000T0000Z.000000T0000Z. 000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
606.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
607.	Verify the text warning contains a presence of closing $$.	The Non-Convective Flash Flood Warning text contains a presence of closing $$.	
608.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Non-Convective Flash Flood Warning is saved. The text window displays the saved warning.	
609.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFFWOAX' window (not in edit mode).	
610.	Note the VTEC code (the 'FF.W.xxxx' portion in particular).	FF.W._____	
611.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
612.	Close the Text Warngen: OMAFFWOAX window.	The Text Warngen: OMAFFWOAX window closes.	
613.	MB1 click the WarnGen button in the toolbar and select the 'non-convective FFW' radio button. Then MB1 click the 'Correct/Reissue' dropdown menu to verify the created warning is able to be corrected (COR), extended (EXT) or reissued (NEW). Verify three lines similar to the following appear: NEW.KOAX.FF.W.xxxx EXT.KOAX.FF.W.xxxx COR.KOAX.FF.W.xxxx(NEW)	The warning is ingested as verified by observing that the ingested warning can be corrected (COR), extended (EXT) or reissued (NEW).	

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Step	Action	Result	Pass/Fail
614.	Create another Non-Convective Flash Flood Warning by repeating steps 593-609, but choosing different options within the 'WarnGen: Operational' window.	The new Non-Convective Flash Flood Warning displays in the text window.	
615.	Verify the VTEC code in the warning is different from the first Non-Convective Flash Flood Warning (e.g., FF.W.0001 becomes FF.W.0002).	The VTEC code from the first warning was persisted. The second Non-Convective Flash Flood Warning contains updated VTEC coding.	
616.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
617.	Close the Text Warngen: OMAFFWOAX window.	The Text Warngen: OMAFFWOAX window closes.	
618.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button. Select 'non-convective FFW' from the dropdown menu adjacent to the 'Other' radio button. Then MB1 click the 'Correct/Reissue' dropdown menu to verify the created warning is able to be corrected (COR), extended (EXT) or reissued (NEW). Verify three lines similar to the following appear: COR.KOAX.FF.W.xxxx(NEW) NEW.KOAX.FF.W.xxxx EXT.KOAX.FF.W.xxxx	The warning is ingested as verified by observing that the ingested warning can be corrected (COR), extended (EXT) or reissued (NEW).	
Correcting a Non-Convective Flash Flood Warning (COR)			
619.	In the WarnGen GUI, from the 'Correct/Reissue' dropdown, select the 'COR' product.	The polygon appears. The polygon is uneditable as indicated by the small triangle vertex points.	
620.	Change the bulletins to be displayed in the warning text product. Then MB1 click the 'Create Text' button.	The Non-Convective Flash Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	

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Step	Action	Result	Pass/Fail
621.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FFW Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Non-Convective Flash Flood Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
622.	Verify the Non-Convective Flash Flood Warning text contains the Non-Convective Flash Flood Template Parameters selected.	The PRIMARY CAUSE, DAM FAILURE REPORTED BY and CALLS TO ACTION exist in the Non-Convective Flash Flood Warning statement.	
623.	Verify the Non-Convective Flash Flood Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
624.	Verify the Non-Convective Flash Flood Warning text contains the counties encompassed by the polygon. Verify cities in the warning polygon are included in the pathcast.	The counties are listed in the Non-Convective Flash Flood Warning statement. The cities in the warning polygon are included in the warning.	
625.	Verify the Non-Convective Flash Flood Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.COR.KOAX.FF.W.xxxx.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ /00000.0.DM.000000T0000Z.000000T0000Z. 000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
626.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
627.	Verify the text warning contains a presence of closing $$.	The Non-Convective Flash Flood Warning text contains a presence of closing $$.	

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Step	Action	Result	Pass/Fail
628.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Non-Convective Flash Flood Warning is saved. The text window displays the saved warning.	
629.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFFWOAX' window (not in edit mode).	
630.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
631.	MB1 click the WarnGen button in the toolbar, select the Non-Convective Flash Flood radio button, and verify a line similar to the following appears: 'COR.KOAX.FF.W.xxxx(NEW)'	Verified.	
632.	Close the Text Warngen: OMAFFWOAX window.	The Text Warngen: OMAFFWOAX window closes.	
Continuing a Non-Convective Flash Flood Warning (CON) by Issuing a Follow-Up for a Non-Convective Flash Flood Warning (FFS)			
633.	In the WarnGen GUI, MB1 click on the 'Other' radio button. Select 'non-convective Flash Flood Statement' from the dropdown menu adjacent to the 'Other' radio button.	'FOLLOWUP' appears in the dropdown menu.	
634.	MB1 click on the 'FOLLOWUP' dropdown menu and verify the 'CON' and 'CAN' options are available.	The list includes the 'CON' and 'CAN' options.	
635.	MB1 click the 'CON' option.	The vector and polygon of the original warning appear on the main pane.	
636.	Modify the warning polygon, but do not remove any counties from the original warning polygon. MB1 click the 'Warned/Hatched Area' button. Note: The polygon can only be reduced in size. Select the following warning bulletins: PRIMARY CAUSE: ice jam break DAM FAILURE REPORTED BY: corps of engineers CALLS TO ACTION: Turn around…dont drown Then MB1 click the 'Create Text' button.	The Non-Convective Flash Flood Statement text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	

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Step	Action	Result	Pass/Fail
637.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FFS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Non-Convective Flash Flood Statement text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
638.	Verify the Non-Convective Flash Flood Statement text contains the Non-Convective Flash Flood Template Parameters selected.	The PRIMARY CAUSE, DAM FAILURE REPORTED BY and CALLS TO ACTION exist in the Non-Convective Flash Flood Statement text.	
639.	Verify the Non-Convective Flash Flood Statement text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
640.	Verify the Non-Convective Flash Flood Statement text contains the counties encompassed by the polygon.	The counties are listed in the Non-Convective Flash Flood Statement text.	
641.	Verify the Non-Convective Flash Flood Statement text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.CON.KOAX.FF.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /00000.0.DM.000000T0000Z.000000T0000Z. 000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
642.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
643.	Verify the text warning contains a presence of closing $$.	The Non-Convective Flash Flood Statement text contains a presence of closing $$.	
644.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Non-Convective Flash Flood Statement is saved. The text window displays the saved warning.	

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Step	Action	Result	Pass/Fail
645.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFFSOAX' window (not in edit mode).	
646.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
647.	Close the Text Warngen: OMAFFSOAX window.	The Text Warngen: OMAFFSOAX window closes.	
648.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button, Select 'non-convective FFS' from the dropdown menu adjacent to the 'Other' radio button. Then MB1 click the 'FOLLOWUP' dropdown menu. Verify a line similar to the following appears: 'COR.KOAX.FF.W.xxxx(CON)	Verified.	
Extending a Non-Convective Flash Flood Warning (EXT)			
649.	In the WarnGen GUI, MB1 click the 'Other' radio button. Select 'non-convective Flash Flood Warning' from the dropdown menu adjacent to the 'Other' radio button. Then MB1 click the 'Correct/Extend/Reissue' dropdown menu and select the 'EXT' product.	The polygon appears. The polygon is uneditable as indicated by the small triangle vertex points.	
650.	Modify the polygon, the duration and bulletins to be displayed in the warning text product. Then MB1 click the 'Create Text' button.	The Non-Convective Flash Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
651.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FFW Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Non-Convective Flash Flood Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	

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Step	Action	Result	Pass/Fail
652.	Verify the Non-Convective Flash Flood Warning text contains the Non-Convective Flash Flood Template Parameters selected.	The PRIMARY CAUSE, DAM FAILURE REPORTED BY and CALLS TO ACTION exist in the Non-Convective Flash Flood Warning statement.	
653.	Verify the Non-Convective Flash Flood Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
654.	Verify the Non-Convective Flash Flood Warning text contains the counties encompassed by the polygon. Verify cities in the warning polygon are included in the pathcast.	The counties are listed in the Non-Convective Flash Flood Warning statement. The cities in the warning polygon are included in the warning.	
655.	Verify the Non-Convective Flash Flood Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.EXT.KOAX.FF.W.xxxx.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ /00000.0.DM.000000T0000Z.000000T0000Z. 000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
656.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
657.	Verify the text warning contains a presence of closing $$.	The Non-Convective Flash Flood Warning text contains a presence of closing $$.	
658.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Non-Convective Flash Flood Warning is saved. The text window displays the saved warning.	
659.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFFWOAX' window (not in edit mode).	
660.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	

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Step	Action	Result	Pass/Fail
661.	MB1 click the WarnGen button in the toolbar, select the Non-Convective Flash Flood radio button, MB1 click the 'Correct/Extend/Reissue' dropdown menu and verify a line similar to the following appears: 'COR.KOAX.FF.W.xxxx(EXT)'	Verified.	
662.	Close the Text Warngen: OMAFFWOAX window.	The Text Warngen: OMAFFWOAX window closes.	
Continuing/Canceling a Non-Convective Flash Flood Warning (CON/CAN)			
663.	In the WarnGen GUI, MB1 click on the 'Other' radio button. Select 'non-convective Flash Flood Statement' from the dropdown menu adjacent to the 'Other' radio button.	'FOLLOWUP' appears in the dropdown menu.	
664.	MB1 click on the 'FOLLOWUP' dropdown menu and verify the 'CON' and 'CAN' options are available.	The list includes the 'CON' and 'CAN' options.	
665.	MB1 click the 'CON' option.	The vector and polygon of the original warning appear on the main pane.	
666.	Modify the warning polygon to remove at least one county from the original warning polygon. Select the following warning bulletins: PRIMARY CAUSE: volcano induced snow melt DAM FAILURE REPORTED BY: the public CALLS TO ACTION: Nighttime flooding Then MB1 click the 'Create Text' button.	The Non-Convective Flash Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
667.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FFS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Non-Convective Flash Flood Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
668.	Verify the Non-Convective Flash Flood Warning text contains the Non-Convective Flash Flood Template Parameters selected.	The PRIMARY CAUSE, DAM FAILURE REPORTED BY and CALLS TO ACTION exist in the Non-Convective Flash Flood Warning statement.	
669.	Verify the Non-Convective Flash Flood Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	

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Step	Action	Result	Pass/Fail
670.	Verify the Non-Convective Flash Flood Warning text contains the counties encompassed by the polygon.	The counties are listed in the Non-Convective Flash Flood Warning statement.	
671.	Verify the Non-Convective Flash Flood Warning text contains the VTEC code above the BULLETIN section. The 2 lines of VTEC code should be in the following format: /O.CAN.KOAX.FF.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /00000.0.DM.000000T0000Z.000000T0000Z. 000000T0000Z.00/ /O.CON.KOAX.FF.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /00000.0.DM.000000T0000Z.000000T0000Z. 000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
672.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
673.	Verify the text warning contains a presence of closing $$.	The Non-Convective Flash Flood Warning text contains a presence of closing $$.	
674.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Non-Convective Flash Flood Warning is saved. The text window displays the saved warning.	
675.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFFSOAX' window (not in edit mode).	
676.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
677.	Close the Text Warngen: OMAFFSOAX window.	The Text Warngen: OMAFFSOAX window closes.	

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Step	Action	Result	Pass/Fail
678.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button. Select 'non-convective Flash Flood Statement' from the dropdown menu adjacent to the 'Other' radio button. Then MB1 click the 'FOLLOWUP' dropdown menu. Verify two lines similar to the following appear: 'COR.KOAX.FF.W.xxxx(CON)'	Verified.	
Reissuing a Non-Convective Flash Flood Warning (NEW)			
679.	In the WarnGen GUI, MB1 click on the 'Other' radio button. Select 'non-convective FFW' from the dropdown menu adjacent to the 'Other' radio button.	'Extend/Reissue' appears in the dropdown menu.	
680.	From the 'Extend/Reissue' dropdown, select the 'NEW' product.	The polygon appears. The polygon is editable.	
681.	Modify the polygon, duration and bulletins for the warning text product. Then MB1 click the 'Create Text' button.	The Non-Convective Flash Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
682.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FFW Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Non-Convective Flash Flood Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
683.	Verify the Non-Convective Flash Flood Warning text contains the Non-Convective Flash Flood Template Parameters selected.	The PRIMARY CAUSE, DAM FAILURE REPORTED BY and CALLS TO ACTION exist in the Non-Convective Flash Flood Warning statement.	
684.	Verify the Non-Convective Flash Flood Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
685.	Verify the Non-Convective Flash Flood Warning text contains the counties encompassed by the polygon. Verify cities in the warning polygon are included in the pathcast.	The counties are listed in the Non-Convective Flash Flood Warning statement. The cities in the warning polygon are included in the warning.	

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Step	Action	Result	Pass/Fail
686.	Verify the Non-Convective Flash Flood Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.NEW.KOAX.FF.W.xxxx.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ /OOOOO.O.ER.000000T0000Z-000000T0000Z.000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
687.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
688.	Verify the text warning contains a presence of closing $$.	The Non-Convective Flash Flood Warning text contains a presence of closing $$.	
689.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Non-Convective Flash Flood Warning is saved. The text window displays the saved warning.	
690.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFFWOAX' window (not in edit mode).	
691.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
692.	Close the Text Warngen: OMAFFWOAX window.	The Text Warngen: OMAFFWOAX window closes.	
693.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button. Select 'non-convective FFW' from the dropdown menu adjacent to the 'Other' radio button. Then verify three lines similar to the following appear: 'COR.KOAX.FF.W.xxxx(NEW)' 'NEW.KOAX.FF.W.xxxx' 'EXT.KOAX.FF.W.xxxx'	Verified.	

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Step	Action	Result	Pass/Fail
Cancelling a Non-Convective Flash Flood Warning (CAN)			
694.	In the WarnGen GUI, MB1 click the 'Other' radio button. Select 'non-convective FFS' from the dropdown menu adjacent to the 'Other' radio button. From the 'FOLLOWUP' dropdown menu, select the 'CAN' product.	The polygon appears. The polygon is uneditable as indicated by the small triangle vertex points. The bulletins are grayed out.	
695.	MB1 click the 'Create Text' button	The Non-Convective Flash Flood Statement text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
696.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FFS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Non-Convective Flash Flood Statement text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
697.	Verify the Non-Convective Flash Flood Statement text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
698.	Verify the Non-Convective Flash Flood Statement text contains the counties encompassed by the polygon.	The counties are listed in the Non-Convective Flash Flood Statement text.	
699.	Verify the Non-Convective Flash Flood Statement text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.CAN.KOAX.FF.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /OOOOO.O.ER.000000T0000Z-000000T0000Z.000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
700.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	

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Step	Action	Result	Pass/Fail
701.	Verify the text warning contains a presence of closing $$.	The Non-Convective Flash Flood Statement text contains a presence of closing $$.	
702.	In the text window, insert an explanation replacing the '!**EXPLANATION**!' line and replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Non-Convective Flash Flood Statement is saved. The text window displays the saved warning.	
703.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFFSOAX' window (not in edit mode).	
704.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
705.	Close the Text Warngen: OMAFFSOAX window.	The Text Warngen: OMAFFSOAX window closes.	
Expiring a Non-Convective Flash Flood Warning (EXP)			
706.	MB1 click on the 'WarnGen' button in the tool bar.	The WarnGen application loads. A 'Drag me to Storm' labeled point displays in the center of the CAVE display. This point is in edit mode. The WarnGen window appears.	
707.	In the main pane, click and hold MB1 on the 'Drag me to Storm' point and drag it to another location.	A southwest-northeast oriented vector appears with the point near the center of the line, tick marks, and time values at the starting point, current/endpoint, and arrowhead. An initial warning area hatched box appears.	
708.	In the 'WarnGen' window, select the following: -Track type: One Storm -Edit: Box and Track	The selections are made as indicated by the radio buttons.	

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Step	Action	Result	Pass/Fail
709.	MB1 click on 'non-convective FFW' in the 'Product type' section.	The selection is made as indicated by the radio button. The PRIMARY CAUSE, DAM FAILURE REPORTED BY and CALLS TO ACTION sections update to display items applicable for Non-Convective Flash Flood Warnings. The storm motion vector is removed from the main display, leaving only the hatched polygon.	
710.	Select the 'Duration:' to 15 min.	The duration is set to 15 min. The ending time of the warning updates with the change in duration.	
711.	MB1 click and hold on a vertex and dragging it to another location outside the koax's CWA boundary. At the same time, ensure that multiple KOAX counties are included in the warning polygon.	The hatched area expands within the enclosed box up to the CWA boundary but does not cross over the CWA boundary. Multiple KOAX counties are included in the polygon. Note: If the polygon encompasses a portion of a county less than a specified percentage of the size of a county, the portion will not be hatched.	
712.	In the WarnGen GUI, MB1 click on the 'Warned/Hatched Area' button under the 'Redraw Box on Screen from:' section.	The polygon's vertices are redrawn on the vector snapping back to the CWA border while creating additional vertices. Portions of the county not hatched, as discussed in step 39, are not included in the updated polygon.	
713.	MB1 within the Optional bullets section, select items such that the following Non-Convective Flash Flood Template Parameters are highlighted: PRIMARY CAUSE: levee failure DAM FAILURE REPORTED BY: dam operator CALLS TO ACTION: Nighttime flooding Then click MB1 on the 'Create Text' button.	The Non-Convective Flash Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	

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Step	Action	Result	Pass/Fail
714.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FFW Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Non-Convective Flash Flood Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
715.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Non-Convective Flash Flood Warning is saved. The text window displays the saved warning.	
716.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFFWOAX' window (not in edit mode).	
717.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
718.	Close the Text Warngen: OMAFFWOAX window.	The Text Warngen: OMAFFWOAX window closes.	
719.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button. Select 'non-convective Flash Flood Statement' from the dropdown menu adjacent to the 'Other' radio button. Then MB1 click the 'FOLLOWUP' dropdown menu to verify the created warning is able to expired (EXP). Verify the line similar to the following appears: EXP.KOAX.FF.W.xxxx	The warning is ingested as verified by observing that the ingested warning can be expired (EXP).	
720.	Select the EXP product.	The polygon appears. The polygon is uneditable as indicated by the small triangle vertex points. The bulletins are grayed out.	
721.	MB1 click the 'Create Text' button.	The Non-Convective Flash Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	

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Step	Action	Result	Pass/Fail
722.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FFS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Non-Convective Flash Flood Statement text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
723.	Verify the Non-Convective Flash Flood Statement text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
724.	Verify the Non-Convective Flash Flood Statement text contains the counties encompassed by the polygon.	The counties are listed in the Non-Convective Flash Flood Statement text.	
725.	Verify the Non-Convective Flash Flood Statement text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.EXP.KOAX.FF.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /OOOOO.O.ER.000000T0000Z-000000T0000Z.000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
726.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
727.	Verify the text warning contains a presence of closing $$.	The Non-Convective Flash Flood Statement text contains a presence of closing $$.	
728.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Non-Convective Flash Flood Statement is saved. The text window displays the saved warning.	
729.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFFSOAX' window (not in edit mode).	

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Step	Action	Result	Pass/Fail
730.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
731.	Close the Text Warngen: OMAFFSOAX window.	The Text Warngen: OMAFFSOAX window closes.	
732.	MB1 click the WarnGen button in the toolbar, select the 'Other' radio button. Select 'non-convective FFS' from the dropdown menu adjacent to the 'Other' radio button. Verify in the 'FOLLOWUP' dropdown menu that an expired product (EXP) that appears as follows: 'COR.KOAX.FF.W.xxxx(EXP)'	The warning is ingested as verified by observing that the expired product (EXP) exists in the Update List dropdown menu.	
733.	Close the WarnGen GUI.	The WarnGen GUI closes.	
Areal Flood Warning			
Issuing an Areal Flood Warning			
734.	Open a terminal and navigate to the flw_default.cfg file (e.g., cave/etc/warngen). Then type 'ls' to view the files.	The flw_default.cfg file is present.	
735.	Modify the file (vi) by adding '<duration>30</duration>' Under the <durations> section.	The modifications are made.	
736.	Save the changes (wq!).	The modifications are saved.	
737.	MB1 click on the 'WarnGen' button in the tool bar.	The WarnGen application loads. A 'Drag me to Storm' labeled point displays in the center of the CAVE display. This point is in edit mode. The WarnGen window appears.	
738.	In the main pane, click and hold MB1 on the 'Drag me to Storm' point and drag it to another location.	A southwest-northeast oriented vector appears with the point near the center of the line, tick marks, and time values at the starting point, current/endpoint, and arrowhead. An initial warning area hatched box appears.	
739.	In the 'WarnGen' window, select the following: -Track type: One Storm -Edit: Box and Track	The selections are made as indicated by the radio buttons.	

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Step	Action	Result	Pass/Fail
740.	MB1 click on 'Other' in the 'Product type' section. Select 'Areal Flood Warning' from the dropdown menu adjacent to the 'Other' radio button.	The selection is made as indicated by the radio button. The primary cause other than rain and CALLS TO ACTION sections update to display items applicable for Areal Flood Warnings. The storm motion vector is removed from the main display, leaving only the hatched polygon.	
741.	Select the 'Duration:' to 30 min.	The duration is set to 30 min. The ending time of the warning updates with the change in duration.	
742.	MB1 click and hold on a vertex and dragging it to another location outside the koax's CWA boundary. At the same time, ensure that multiple KOAX counties are included in the warning polygon.	The hatched area expands within the enclosed box up to the CWA boundary but does not cross over the CWA boundary. Multiple KOAX counties are included in the polygon. Note: If the polygon encompasses a portion of a county less than a specified percentage of the size of a county, the portion will not be hatched.	
743.	In the WarnGen GUI, MB1 click on the 'Warned/Hatched Area' button under the 'Redraw Box on Screen from:' section.	The polygon's vertices are redrawn on the vector snapping back to the CWA border while creating additional vertices. Portions of the county not hatched, as discussed in step 39, are not included in the updated polygon.	
744.	MB1 within the Optional bullets section, select items such that the following Areal Flood Template Parameters are highlighted: primary cause other than rain: Ice Jam CALLS TO ACTION: Do not drive into water Then click MB1 on the 'Create Text' button.	The Areal Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	

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Step	Action	Result	Pass/Fail
745.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FLW Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Areal Flood Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
746.	Verify the Areal Flood Warning text contains the Areal Flood Template Parameters selected.	The primary cause other than rain and CALLS TO ACTION exist in the Areal Flood Warning statement.	
747.	Verify the Areal Flood Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
748.	Verify the Areal Flood Warning text contains the counties encompassed by the polygon. Verify cities in the warning polygon are included in the pathcast.	The counties are listed in the Areal Flood Warning statement. The cities in the warning polygon are included in the warning.	
749.	Verify the Areal Flood Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.NEW.KOAX.FA.W.0001.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ /00000.0.IC.000000T0000Z.000000T0000Z. 000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
750.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
751.	Verify the text warning contains a presence of closing $$.	The Areal Flood Warning text contains a presence of closing $$.	
752.	In the text window, replace the '!**WARNING BASIS**!' and ''!--*optional description of the path of the flood--!' lines with a word or phrase and the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Areal Flood Warning is saved. The text window displays the saved warning.	

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Step	Action	Result	Pass/Fail
753.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFLWOAX' window (not in edit mode).	
754.	Note the VTEC code (the 'FA.W.xxxx' portion in particular).	FA.W._____	
755.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
756.	Close the Text Warngen: OMAFLWOAX window.	The Text Warngen: OMAFLWOAX window closes.	
757.	MB1 click the WarnGen button in the toolbar and select the 'Areal Flood Warning' radio button. Then MB1 click the 'Correct/Reissue' dropdown menu to verify the created warning is able to be corrected (COR), extended (EXT) or reissued (NEW). Verify three lines similar to the following appear: NEW.KOAX.FA.W.xxxx EXT.KOAX.FA.W.xxxx COR.KOAX.FA.W.xxxx(NEW)	The warning is ingested as verified by observing that the ingested warning can be corrected (COR), extended (EXT) or reissued (NEW).	
758.	Create another Areal Flood Warning by repeating steps 734-753, but choosing different options within the 'WarnGen: Operational' window.	The new Areal Flood Warning displays in the text window.	
759.	Verify the VTEC code in the warning is different from the first Areal Flood Warning (e.g., FA.W.0001 becomes FA.W.0002).	The VTEC code from the first warning was persisted. The second Areal Flood Warning contains updated VTEC coding.	
760.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
761.	Close the Text Warngen: OMAFLWOAX window.	The Text Warngen: OMAFLWOAX window closes.	

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Step	Action	Result	Pass/Fail
762.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button. Select 'Areal Flood Warning' from the dropdown menu adjacent to the 'Other' radio button. Then MB1 click the 'Correct/Reissue' dropdown menu to verify the created warning is able to be corrected (COR), extended (EXT) or reissued (NEW). Verify three lines similar to the following appear: COR.KOAX.FA.W.xxxx(NEW) NEW.KOAX.FA.W.xxxx EXT.KOAX.FA.W.xxxx	The warning is ingested as verified by observing that the ingested warning can be corrected (COR), extended (EXT) or reissued (NEW).	
Correcting an Areal Flood Warning (COR)			
763.	In the WarnGen GUI, from the 'Correct/Reissue' dropdown, select the 'COR' product.	The polygon appears. The polygon is uneditable as indicated by the small triangle vertex points.	
764.	Change the bulletins to be displayed in the warning text product. Then MB1 click the 'Create Text' button.	The Areal Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
765.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FLW Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Areal Flood Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
766.	Verify the Areal Flood Warning text contains the Areal Flood Template Parameters selected.	The primary cause other than rain and CALLS TO ACTION exist in the Areal Flood Warning statement.	
767.	Verify the Areal Flood Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	

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Step	Action	Result	Pass/Fail
768.	Verify the Areal Flood Warning text contains the counties encompassed by the polygon. Verify cities in the warning polygon are included in the pathcast.	The counties are listed in the Areal Flood Warning statement. The cities in the warning polygon are included in the warning.	
769.	Verify the Areal Flood Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.COR.KOAX.FA.W.xxxx.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ /00000.0.DM.000000T0000Z.000000T0000Z. 000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
770.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
771.	Verify the text warning contains a presence of closing $$.	The Areal Flood Warning text contains a presence of closing $$.	
772.	In the text window, replace the '!**WARNING BASIS**!' and ''!--*optional description of the path of the flood--!' lines with a word or phrase and the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Areal Flood Warning is saved. The text window displays the saved warning.	
773.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFLWOAX' window (not in edit mode).	
774.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
775.	MB1 click the WarnGen button in the toolbar. Then MB1 click the 'Other' radio button and select the 'Areal Flood Warning' option. Under the Followup dropdown menu, verify a line similar to the following appears: 'COR.KOAX.FA.W.xxxx(NEW)'	Verified.	

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Step	Action	Result	Pass/Fail
776.	Close the Text Warngen: OMAFLWOAX window.	The Text Warngen: OMAFLWOAX window closes.	
Continuing an Areal Flood Warning (CON) by Issuing a Follow-Up for an Areal Flood Warning (FLS)			
777.	In the WarnGen GUI, MB1 click on the 'Other' radio button. Select 'Areal Flood Warning Followup' from the dropdown menu adjacent to the 'Other' radio button.	'FOLLOWUP' appears in the dropdown menu.	
778.	MB1 click on the 'FOLLOWUP' dropdown menu and verify the 'CON' and 'CAN' options are available.	The list includes the 'CON' and 'CAN' options.	
779.	MB1 click the 'CON' option.	The polygon of the original warning appears on the main pane.	
780.	Modify the warning polygon, but do not remove any counties from the original warning polygon. MB1 click the 'Warned/Hatched Area' button. Note: The polygon can only be reduced in size. Select the following warning bulletins: primary cause other than rain: CALLS TO ACTION: Turn around…dont drown Then MB1 click the 'Create Text' button.	The Areal Flood Statement text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
781.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FLS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Areal Flood Statement text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
782.	Verify the Areal Flood Statement text contains the Areal Flood Template Parameters selected.	The primary cause other than rain and CALLS TO ACTION exist in the Areal Flood Statement text.	
783.	Verify the Areal Flood Statement text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
784.	Verify the Areal Flood Statement text contains the counties encompassed by the polygon.	The counties are listed in the Areal Flood Statement text.	

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Step	Action	Result	Pass/Fail
785.	Verify the Areal Flood Statement text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.CON.KOAX.FA.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /00000.0.DM.000000T0000Z.000000T0000Z. 000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
786.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
787.	Verify the text warning contains a presence of closing $$.	The Areal Flood Statement text contains a presence of closing $$.	
788.	In the text window, replace the '!**WARNING BASIS**!' and ''!--*optional description of the path of the flood--!' lines with a word or phrase and the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Areal Flood Statement is saved. The text window displays the saved warning.	
789.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFLSOAX' window (not in edit mode).	
790.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
791.	Close the Text Warngen: OMAFLSOAX window.	The Text Warngen: OMAFLSOAX window closes.	
792.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button, Select 'Areal Flood Warning Followup' from the dropdown menu adjacent to the 'Other' radio button. Then MB1 click the 'FOLLOWUP' dropdown menu. Verify a line similar to the following appears: 'COR.KOAX.FA.W.xxxx(CON)	Verified.	

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Step	Action	Result	Pass/Fail
Extending an Areal Flood Warning (EXT)			
793.	In the WarnGen GUI, MB1 click the 'Other' radio button. Select 'Areal Flood Warning' from the dropdown menu adjacent to the 'Other' radio button. Then MB1 click the 'Correct/Extend/Reissue' dropdown menu and select the 'EXT' product.	The polygon appears. The polygon is uneditable as indicated by the small triangle vertex points.	
794.	Modify the duration and bulletins to be displayed in the warning text product. Then MB1 click the 'Create Text' button.	The Areal Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
795.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FLW Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Areal Flood Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
796.	Verify the Areal Flood Warning text contains the Areal Flood Template Parameters selected.	The primary cause other than rain and CALLS TO ACTION exist in the Areal Flood Warning statement.	
797.	Verify the Areal Flood Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
798.	Verify the Areal Flood Warning text contains the counties encompassed by the polygon. Verify cities in the warning polygon are included in the pathcast.	The counties are listed in the Areal Flood Warning statement. The cities in the warning polygon are included in the warning.	

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Step	Action	Result	Pass/Fail
799.	Verify the Areal Flood Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.EXT.KOAX.FA.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /00000.0.DM.000000T0000Z.000000T0000Z. 000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
800.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
801.	Verify the text warning contains a presence of closing $$.	The Areal Flood Warning text contains a presence of closing $$.	
802.	In the text window, replace the '!**WARNING BASIS**!' and ''!--*optional description of the path of the flood--!' lines with a word or phrase and the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Areal Flood Warning is saved. The text window displays the saved warning.	
803.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFLWOAX' window (not in edit mode).	
804.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
805.	MB1 click the WarnGen button in the toolbar, select the Areal Flood radio button, MB1 click the 'Correct/Extend/Reissue' dropdown menu and verify a line similar to the following appears: 'COR.KOAX.FA.W.xxxx(EXT)'	Verified.	
806.	Close the Text Warngen: OMAFLWOAX window.	The Text Warngen: OMAFLWOAX window closes.	

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Step	Action	Result	Pass/Fail
Continuing/Canceling an Areal Flood Warning (CON/CAN)			
807.	In the WarnGen GUI, MB1 click on the 'Other' radio button. Select 'Areal Flood Warning Followup' from the dropdown menu adjacent to the 'Other' radio button.	'FOLLOWUP' appears in the dropdown menu.	
808.	MB1 click on the 'FOLLOWUP' dropdown menu and verify the 'CON' and 'CAN' options are available.	The list includes the 'CON' and 'CAN' options.	
809.	MB1 click the 'CON' option.	The vector and polygon of the original warning appear on the main pane.	
810.	Modify the warning polygon to remove at least one county from the original warning polygon. Select the following warning bulletins: primary cause other than rain: Dam Break CALLS TO ACTION: Nighttime flooding Then MB1 click the 'Create Text' button.	The Areal Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
811.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FLS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Areal Flood Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
812.	Verify the Areal Flood Warning text contains the Areal Flood Template Parameters selected.	The primary cause other than rain and CALLS TO ACTION exist in the Areal Flood Warning statement.	
813.	Verify the Areal Flood Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
814.	Verify the Areal Flood Warning text contains the counties encompassed by the polygon.	The counties are listed in the Areal Flood Warning statement.	

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Step	Action	Result	Pass/Fail
815.	Verify the Areal Flood Warning text contains the VTEC code above the BULLETIN section. The 2 lines of VTEC code should be in the following format: /O.CAN.KOAX.FA.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /00000.0.DM.000000T0000Z.000000T0000Z. 000000T0000Z.00/ /O.CON.KOAX.FA.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /00000.0.DM.000000T0000Z.000000T0000Z. 000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
816.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
817.	Verify the text warning contains a presence of closing $$.	The Areal Flood Warning text contains a presence of closing $$.	
818.	In the text window, replace the '!**WARNING BASIS**!' and ''!--*optional description of the path of the flood--!' lines with a word or phrase and the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Areal Flood Warning is saved. The text window displays the saved warning.	
819.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFLSOAX' window (not in edit mode).	
820.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
821.	Close the Text Warngen: OMAFLSOAX window.	The Text Warngen: OMAFLSOAX window closes.	

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Step	Action	Result	Pass/Fail
822.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button. Select 'Areal Flood Warning Followup' from the dropdown menu adjacent to the 'Other' radio button. Then MB1 click the 'FOLLOWUP' dropdown menu. Verify two lines similar to the following appear: 'COR.KOAX.FA.W.xxxx(CON)'	Verified.	
Reissuing an Areal Flood Warning (NEW)			
823.	In the WarnGen GUI, MB1 click on the 'Other' radio button. Select 'Areal Flood Warning' from the dropdown menu adjacent to the 'Other' radio button.	'Extend/Reissue' appears in the dropdown menu.	
824.	From the 'Extend/Reissue' dropdown, select the 'NEW' product.	The polygon appears. The polygon is editable.	
825.	Modify the polygon, duration and bulletins for the warning text product. Then MB1 click the 'Create Text' button.	The Areal Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
826.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FLW Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Areal Flood Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
827.	Verify the Areal Flood Warning text contains the Areal Flood Template Parameters selected.	The primary cause other than rain and CALLS TO ACTION exist in the Areal Flood Warning statement.	
828.	Verify the Areal Flood Warning text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
829.	Verify the Areal Flood Warning text contains the counties encompassed by the polygon. Verify cities in the warning polygon are included in the pathcast.	The counties are listed in the Areal Flood Warning statement. The cities in the warning polygon are included in the warning.	

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Step	Action	Result	Pass/Fail
830.	Verify the Areal Flood Warning text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.NEW.KOAX.FA.W.xxxx.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
831.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
832.	Verify the text warning contains a presence of closing $$.	The Areal Flood Warning text contains a presence of closing $$.	
833.	In the text window, replace the '!**WARNING BASIS**!' and ''!--*optional description of the path of the flood--!' lines with a word or phrase and the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Areal Flood Warning is saved. The text window displays the saved warning.	
834.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFLWOAX' window (not in edit mode).	
835.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
836.	Close the Text Warngen: OMAFLWOAX window.	The Text Warngen: OMAFLWOAX window closes.	
837.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button. Select 'Areal Flood Warning' from the dropdown menu adjacent to the 'Other' radio button. Then verify three lines similar to the following appear: 'COR.KOAX.FA.W.xxxx(NEW)' 'NEW.KOAX.FA.W.xxxx' 'EXT.KOAX.FA.W.xxxx'	Verified.	

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Step	Action	Result	Pass/Fail
Cancelling an Areal Flood Warning (CAN)			
838.	In the WarnGen GUI, MB1 click the 'Other' radio button. Select 'Areal Flood Warning Followup' from the dropdown menu adjacent to the 'Other' radio button. From the 'FOLLOWUP' dropdown menu, select the 'CAN' product.	The polygon appears. The polygon is uneditable as indicated by the small triangle vertex points. The bulletins are grayed out.	
839.	MB1 click the 'Create Text' button.	The Areal Flood Statement text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
840.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FLS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Areal Flood Statement text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
841.	Verify the Areal Flood Statement text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
842.	Verify the Areal Flood Statement text contains the counties encompassed by the polygon.	The counties are listed in the Areal Flood Statement text.	
843.	Verify the Areal Flood Statement text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.CAN.KOAX.FA.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /OOOOO.O.ER.000000T0000Z-000000T0000Z.000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
844.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	

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Step	Action	Result	Pass/Fail
845.	Verify the text warning contains a presence of closing $$.	The Areal Flood Statement text contains a presence of closing $$.	
846.	In the text window, replace the '!**EXPLANATION**!' line with a word or phrase and the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Areal Flood Statement is saved. The text window displays the saved warning.	
847.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFLSOAX' window (not in edit mode).	
848.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
849.	Close the Text Warngen: OMAFLSOAX window.	The Text Warngen: OMAFLSOAX window closes.	
Expiring an Areal Flood Warning (EXP)			
850.	Open a terminal and navigate to the flw_default.cfg file (e.g., cave/etc/warngen). Then type 'ls' to view the files.	The flw_default.cfg file is present.	
851.	Modify the file (vi) by adding '<duration>30</duration>' Under the <durations> section.	The modifications are made.	
852.	Save the changes (wq!).	The modifications are saved.	
853.	MB1 click on the 'WarnGen' button in the tool bar.	The WarnGen application loads. A 'Drag me to Storm' labeled point displays in the center of the CAVE display. This point is in edit mode. The WarnGen window appears.	
854.	In the main pane, click and hold MB1 on the 'Drag me to Storm' point and drag it to another location.	A southwest-northeast oriented vector appears with the point near the center of the line, tick marks, and time values at the starting point, current/endpoint, and arrowhead. An initial warning area hatched box appears.	

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Step	Action	Result	Pass/Fail
855.	In the 'WarnGen' window, select the following: -Track type: One Storm -Edit: Box and Track	The selections are made as indicated by the radio buttons.	
856.	MB1 click on 'Areal Flood Warning Followup' in the 'Product type' section.	The selection is made as indicated by the radio button. The primary cause other than rain and CALLS TO ACTION sections update to display items applicable for Areal Flood Warnings. The storm motion vector is removed from the main display, leaving only the hatched polygon.	
857.	Select the 'Duration:' to 30 min.	The duration is set to 30 min. The ending time of the warning updates with the change in duration.	
858.	MB1 click and hold on a vertex and dragging it to another location outside the koax's CWA boundary. At the same time, ensure that multiple KOAX counties are included in the warning polygon.	The hatched area expands within the enclosed box up to the CWA boundary but does not cross over the CWA boundary. Multiple KOAX counties are included in the polygon. Note: If the polygon encompasses a portion of a county less than a specified percentage of the size of a county, the portion will not be hatched.	
859.	In the WarnGen GUI, MB1 click on the 'Warned/Hatched Area' button under the 'Redraw Box on Screen from:' section.	The polygon's vertices are redrawn on the vector snapping back to the CWA border while creating additional vertices. Portions of the county not hatched, as discussed in step 39, are not included in the updated polygon.	
860.	MB1 within the Optional bullets section, select items such that the following Areal Flood Template Parameters are highlighted: primary cause other than rain: Snow melt CALLS TO ACTION: Urban flooding Then click MB1 on the 'Create Text' button.	The Areal Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	

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Step	Action	Result	Pass/Fail
861.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FLW Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Areal Flood Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
862.	In the text window, replace the '!**WARNING BASIS**!' and ''!--*optional description of the path of the flood--!' lines with a word or phrase and the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Areal Flood Warning is saved. The text window displays the saved warning.	
863.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFLWOAX' window (not in edit mode).	
864.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
865.	Close the Text Warngen: OMAFLWOAX window.	The Text Warngen: OMAFLWOAX window closes.	
866.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button. Select 'Areal Flood Warning Followup' from the dropdown menu adjacent to the 'Other' radio button. Then MB1 click the 'FOLLOWUP' dropdown menu to verify the created warning is able to expired (EXP). Verify the line similar to the following appears: EXP.KOAX.FA.W.xxxx	The warning is ingested as verified by observing that the ingested warning can be expired (EXP).	

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Step	Action	Result	Pass/Fail
867.	Select the EXP product.	The polygon appears. The polygon is uneditable as indicated by the small triangle vertex points. The bulletins are grayed out.	
868.	MB1 click the 'Create Text' button.	The Areal Flood Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
869.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FLS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Areal Flood Statement text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
870.	Verify the Areal Flood Statement text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
871.	Verify the Areal Flood Statement text contains the counties encompassed by the polygon.	The counties are listed in the Areal Flood Statement text.	
872.	Verify the Areal Flood Statement text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.EXP.KOAX.FA.W.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /OOOOO.O.ER.000000T0000Z-000000T0000Z.000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
873.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
874.	Verify the text warning contains a presence of closing $$.	The Areal Flood Statement text contains a presence of closing $$.	

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Step	Action	Result	Pass/Fail
875.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Areal Flood Statement is saved. The text window displays the saved warning.	
876.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFLSOAX' window (not in edit mode).	
877.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
878.	Close the Text Warngen: OMAFLSOAX window.	The Text Warngen: OMAFLSOAX window closes.	
879.	MB1 click the WarnGen button in the toolbar, select the 'Other' radio button. Select 'Areal Flood Statement' from the dropdown menu adjacent to the 'Other' radio button. Verify in the 'FOLLOWUP' dropdown menu that an expired product (EXP) that appears as follows: 'COR.KOAX.FA.W.xxxx(EXP)'	The warning is ingested as verified by observing that the expired product (EXP) exists in the Update List dropdown menu.	
880.	Close the WarnGen GUI.	The WarnGen GUI closes.	
Areal Flood Advisory			
Issuing an Areal Flood Advisory			
881.	MB1 click on the 'WarnGen' button in the tool bar.	The WarnGen application loads. A 'Drag me to Storm' labeled point displays in the center of the CAVE display. This point is in edit mode. The WarnGen window appears.	
882.	In the main pane, click and hold MB1 on the 'Drag me to Storm' point and drag it to another location.	A southwest-northeast oriented vector appears with the point near the center of the line, tick marks, and time values at the starting point, current/endpoint, and arrowhead. An initial warning area hatched box appears.	
883.	In the 'WarnGen' window, select the following: -Track type: One Storm -Edit: Box and Track	The selections are made as indicated by the radio buttons.	

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Step	Action	Result	Pass/Fail
884.	MB1 click on 'Other' in the 'Product type' section. Select 'Areal Flood Advisory' from the dropdown menu adjacent to the 'Other' radio button.	The selection is made as indicated by the radio button. The if not generic flood advisory, hydrologic conditions/causes if applicable, and CALLS TO ACTION sections update to display items applicable for Areal Flood Advisories. The storm motion vector is removed from the main display, leaving only the hatched polygon.	
885.	Select the 'Duration:' to 3:00 hours.	The duration is set to 3:00 hours. The ending time of the warning updates with the change in duration.	
886.	MB1 click and hold on a vertex and dragging it to another location outside the koax's CWA boundary. At the same time, ensure that multiple KOAX counties are included in the warning polygon.	The hatched area expands within the enclosed box up to the CWA boundary but does not cross over the CWA boundary. Multiple KOAX counties are included in the polygon. Note: If the polygon encompasses a portion of a county less than a specified percentage of the size of a county, the portion will not be hatched.	
887.	In the WarnGen GUI, MB1 click on the 'Warned/Hatched Area' button under the 'Redraw Box on Screen from:' section.	The polygon's vertices are redrawn on the vector snapping back to the CWA border while creating additional vertices. Portions of the county not hatched, as discussed in step 39, are not included in the updated polygon.	
888.	MB1 within the Optional bullets section, select items such that the following Areal Flood Template Parameters are highlighted: if not generic flood advisory: hydrologic Hydrologic conditions/causes if applicable: snow melt CALLS TO ACTION: Urban flooding Then click MB1 on the 'Create Text' button.	The Areal Flood Advisory text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	

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Step	Action	Result	Pass/Fail
889.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FLS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Areal Flood Advisory text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
890.	Verify the Areal Flood Advisory text contains the Areal Flood Template Parameters selected.	The if not generic flood advisory, hydrologic conditions/causes if applicable, and CALLS TO ACTION exist in the Areal Flood Advisory statement.	
891.	Verify the Areal Flood Advisory text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
892.	Verify the Areal Flood Advisory text contains the counties encompassed by the polygon. Verify cities in the warning polygon are included in the pathcast.	The counties are listed in the Areal Flood Advisory statement. The cities in the warning polygon are included in the warning.	
893.	Verify the Areal Flood Advisory text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.NEW.KOAX.FA.Y.0001.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ /00000.0.IC.000000T0000Z.000000T0000Z. 000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
894.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
895.	Verify the text warning contains a presence of closing $$.	The Areal Flood Advisory text contains a presence of closing $$.	

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Step	Action	Result	Pass/Fail
896.	In the text window, replace the '!**WARNING BASIS**!' and ''!--*optional description of the path of the flood--!' lines with a word or phrase and the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Areal Flood Advisory is saved. The text window displays the saved warning.	
897.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFLSOAX' window (not in edit mode).	
898.	Note the VTEC code (the 'FA.Y.xxxx' portion in particular).	FA.Y._____	
899.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
900.	Close the Text Warngen: OMAFLSOAX window.	The Text Warngen: OMAFLSOAX window closes.	
901.	MB1 click the WarnGen button in the toolbar. MB1 click the 'Other' radio button and select 'Areal Flood Advisory' from the dropdown menu. Then MB1 click the 'Correct/Reissue' dropdown menu to verify the created warning is able to be corrected (COR), extended (EXT) or reissued (NEW). Verify three lines similar to the following appear: NEW.KOAX.FA.Y.xxxx EXT.KOAX.FA.Y.xxxx COR.KOAX.FA.Y.xxxx(NEW)	The warning is ingested as verified by observing that the ingested warning can be corrected (COR), extended (EXT) or reissued (NEW).	
902.	Create another Areal Flood Advisory by repeating steps 881-897, but choosing different options within the 'WarnGen: Operational' window.	The new Areal Flood Advisory displays in the text window.	
903.	Verify the VTEC code in the warning is different from the first Areal Flood Advisory (e.g., FA.Y.0001 becomes FA.Y.0002).	The VTEC code from the first warning was persisted. The second Areal Flood Advisory contains updated VTEC coding.	
904.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	

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Step	Action	Result	Pass/Fail
905.	Close the Text Warngen: OMAFLSOAX window.	The Text Warngen: OMAFLSOAX window closes.	
906.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button. Select 'Areal Flood Advisory' from the dropdown menu adjacent to the 'Other' radio button. Then MB1 click the 'Correct/Reissue' dropdown menu to verify the created warning is able to be corrected (COR), extended (EXT) or reissued (NEW). Verify three lines similar to the following appear: COR.KOAX.FA.Y.xxxx(NEW) NEW.KOAX.FA.Y.xxxx EXT.KOAX.FA.Y.xxxx	The warning is ingested as verified by observing that the ingested warning can be corrected (COR), extended (EXT) or reissued (NEW).	
Correcting an Areal Flood Advisory (COR)			
907.	In the WarnGen GUI, from the 'Correct/Reissue' dropdown, select the 'COR' product.	The polygon appears. The polygon is uneditable as indicated by the small triangle vertex points.	
908.	Change the bulletins to be displayed in the warning text product. Then MB1 click the 'Create Text' button.	The Areal Flood Advisory text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
909.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FLS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Areal Flood Advisory text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
910.	Verify the Areal Flood Advisory text contains the Areal Flood Template Parameters selected.	The if not generic flood advisory, hydrologic conditions/causes if applicable, and CALLS TO ACTION exist in the Areal Flood Advisory statement.	
911.	Verify the Areal Flood Advisory text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	

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Step	Action	Result	Pass/Fail
912.	Verify the Areal Flood Advisory text contains the counties encompassed by the polygon. Verify cities in the warning polygon are included in the pathcast.	The counties are listed in the Areal Flood Advisory statement. The cities in the warning polygon are included in the warning.	
913.	Verify the Areal Flood Advisory text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.COR.KOAX.FA.Y.xxxx.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ /00000.0.DM.000000T0000Z.000000T0000Z. 000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
914.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
915.	Verify the text warning contains a presence of closing $$.	The Areal Flood Advisory text contains a presence of closing $$.	
916.	In the text window, replace the '!**WARNING BASIS**!' and ''!--*optional description of the path of the flood--!' lines with a word or phrase and the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Areal Flood Advisory is saved. The text window displays the saved warning.	
917.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFLSOAX' window (not in edit mode).	
918.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
919.	MB1 click the WarnGen button in the toolbar, select the Areal Flood radio button, and verify a line similar to the following appears: 'COR.KOAX.FA.Y.xxxx(NEW)'	Verified.	
920.	Close the Text Warngen: OMAFLSOAX window.	The Text Warngen: OMAFLSOAX window closes.	
Continuing an Areal Flood Advisory (CON) by Issuing a Follow-Up for an Areal Flood Advisory (FLS)			

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Step	Action	Result	Pass/Fail
921.	In the WarnGen GUI, MB1 click on the 'Other' radio button. Select 'Areal Flood Advisory Followup' from the dropdown menu adjacent to the 'Other' radio button.	'FOLLOWUP' appears in the dropdown menu.	
922.	MB1 click on the 'FOLLOWUP' dropdown menu and verify the 'CON' and 'CAN' options are available.	The list includes the 'CON' and 'CAN' options.	
923.	MB1 click the 'CON' option.	The vector and polygon of the original warning appear on the main pane.	
924.	Modify the warning polygon, but do not remove any counties from the original warning polygon. MB1 click the 'Warned/Hatched Area' button. Note: The polygon can only be reduced in size. Select the following warning bulletins: • If not generic flood advisory: small stream • Hydrologic conditions/causes if applicable: snow melt • CALLS TO ACTION: Turn around…dont drown Then MB1 click the 'Create Text' button.	The Areal Flood Statement text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
925.	In the AWIPS Header Block, verify the following selections are set: • TTAAii: SAUS43 • CCCC: KOAX • BBB: NOR • BBB Version: A (grayed out) • WSFO ID: OMA • Product Category: FLS • Product Designator: OAX • Addressee: 000 Then MB1 click the 'Enter' button.	The Areal Flood Statement text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
926.	Verify the Areal Flood Statement text contains the Areal Flood Template Parameters selected.	The if not generic flood advisory, Hydrologic conditions/causes if applicable, and CALLS TO ACTION exist in the Areal Flood Statement text.	
927.	Verify the Areal Flood Statement text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
928.	Verify the Areal Flood Statement text contains the counties encompassed by the polygon.	The counties are listed in the Areal Flood Statement text.	

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Step	Action	Result	Pass/Fail
929.	Verify the Areal Flood Statement text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.CON.KOAX.FA.Y.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /00000.0.DM.000000T0000Z.000000T0000Z. 000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
930.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
931.	Verify the text warning contains a presence of closing $$.	The Areal Flood Statement text contains a presence of closing $$.	
932.	In the text window, replace the '!**WARNING BASIS**!' and ''!--*optional description of the path of the flood--!' lines with a word or phrase and the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Areal Flood Statement is saved. The text window displays the saved warning.	
933.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFLSOAX' window (not in edit mode).	
934.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
935.	Close the Text Warngen: OMAFLSOAX window.	The Text Warngen: OMAFLSOAX window closes.	
936.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button, Select 'Areal Flood Advisory Followup' from the dropdown menu adjacent to the 'Other' radio button. Then MB1 click the 'FOLLOWUP' dropdown menu. Verify a line similar to the following appears: • 'COR.KOAX.FA.Y.xxxx(CON)	Verified.	

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Step	Action	Result	Pass/Fail
Extending an Areal Flood Advisory (EXT)			
937.	In the WarnGen GUI, MB1 click the 'Other' radio button. Select 'Areal Flood Advisory' from the dropdown menu adjacent to the 'Other' radio button. Then MB1 click the 'Correct/Extend/Reissue' dropdown menu and select the 'EXT' product.	The polygon appears. The polygon is uneditable as indicated by the small triangle vertex points.	
938.	Modify the duration and bulletins to be displayed in the warning text product. Then MB1 click the 'Create Text' button.	The Areal Flood Advisory text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
939.	In the AWIPS Header Block, verify the following selections are set: • TTAAii: SAUS43 • CCCC: KOAX • BBB: NOR • BBB Version: A (grayed out) • WSFO ID: OMA • Product Category: FLS • Product Designator: OAX • Addressee: 000 Then MB1 click the 'Enter' button.	The Areal Flood Advisory text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
940.	Verify the Areal Flood Advisory text contains the Areal Flood Template Parameters selected.	The if not generic flood advisory, Hydrologic conditions/causes if applicable, and CALLS TO ACTION exist in the Areal Flood Advisory statement.	
941.	Verify the Areal Flood Advisory text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
942.	Verify the Areal Flood Advisory text contains the counties encompassed by the polygon. Verify cities in the warning polygon are included in the pathcast.	The counties are listed in the Areal Flood Advisory statement. The cities in the warning polygon are included in the warning.	
943.	Verify the Areal Flood Advisory text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.EXT.KOAX.FA.Y.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /00000.0.DM.000000T0000Z.000000T0000Z.000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	

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Step	Action	Result	Pass/Fail
944.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
945.	Verify the text warning contains a presence of closing $$.	The Areal Flood Advisory text contains a presence of closing $$.	
946.	In the text window, replace the '!**WARNING BASIS**!' and ''!--*optional description of the path of the flood--!' lines with a word or phrase and the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Areal Flood Advisory is saved. The text window displays the saved warning.	
947.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFLSOAX' window (not in edit mode).	
948.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
949.	Close the Text Warngen: OMAFLSOAX window.	The Text Warngen: OMAFLSOAX window closes.	
950.	MB1 click the WarnGen button in the toolbar, select the Areal Flood radio button, MB1 click the 'Correct/Extend/Reissue' dropdown menu and verify a line similar to the following appears: 'COR.KOAX.FA.Y.xxxx(EXT)'	Verified.	
Continuing/Canceling an Areal Flood Advisory (CON/CAN)			
951.	In the WarnGen GUI, MB1 click on the 'Other' radio button. Select 'Areal Flood Advisory Followup' from the dropdown menu adjacent to the 'Other' radio button.	'FOLLOWUP' appears in the dropdown menu.	
952.	MB1 click on the 'FOLLOWUP' dropdown menu and verify the 'CON' and 'CAN' options are available.	The list includes the 'CON' and 'CAN' options.	
953.	MB1 click the 'CON' option.	The vector and polygon of the original warning appear on the main pane.	

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Step	Action	Result	Pass/Fail
954.	Modify the warning polygon to remove at least one county from the original warning polygon. Select the following warning bulletins: if not generic flood advisory: hydrologic Hydrologic conditions/causes if applicable: snow melt CALLS TO ACTION: Urban flooding Then MB1 click the 'Create Text' button.	The Areal Flood Advisory text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
955.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FLS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Areal Flood Advisory text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
956.	Verify the Areal Flood Advisory text contains the Areal Flood Template Parameters selected.	The if not generic flood advisory, Hydrologic conditions/causes if applicable, and CALLS TO ACTION exist in the Areal Flood Advisory statement.	
957.	Verify the Areal Flood Advisory text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
958.	Verify the Areal Flood Advisory text contains the counties encompassed by the polygon.	The counties are listed in the Areal Flood Advisory statement.	
959.	Verify the Areal Flood Advisory text contains the VTEC code above the BULLETIN section. The 2 lines of VTEC code should be in the following format: /O.CAN.KOAX.FA.Y.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /00000.0.DM.000000T0000Z.000000T0000Z. 000000T0000Z.00/ /O.CON.KOAX.FA.Y.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /00000.0.DM.000000T0000Z.000000T0000Z. 000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	

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Step	Action	Result	Pass/Fail
960.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
961.	Verify the text warning contains a presence of closing $$.	The Areal Flood Advisory text contains a presence of closing $$.	
962.	In the text window, replace the '!**WARNING BASIS**!' and ''!--*optional description of the path of the flood--!' lines with a word or phrase and the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Areal Flood Advisory is saved. The text window displays the saved warning.	
963.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFLSOAX' window (not in edit mode).	
964.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
965.	Close the Text Warngen: OMAFLSOAX window.	The Text Warngen: OMAFLSOAX window closes.	
966.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button. Select 'Areal Flood Statement' from the dropdown menu adjacent to the 'Other' radio button. Then MB1 click the 'FOLLOWUP' dropdown menu. Verify two lines similar to the following appear: • 'COR.KOAX.FA.Y.xxxx(CON)'	Verified.	
Reissuing an Areal Flood Advisory (NEW)			
967.	In the WarnGen GUI, MB1 click on the 'Other' radio button. Select 'Areal Flood Advisory' from the dropdown menu adjacent to the 'Other' radio button.	'Extend/Reissue' appears in the dropdown menu.	
968.	From the 'Extend/Reissue' dropdown, select the 'NEW' product.	The polygon appears. The polygon is editable.	
969.	Modify the polygon, duration and bulletins for the warning text product. Then MB1 click the 'Create Text' button.	The Areal Flood Advisory text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	

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Step	Action	Result	Pass/Fail
970.	In the AWIPS Header Block, verify the following selections are set: TTAAii: SAUS43 CCCC: KOAX BBB: NOR BBB Version: A (grayed out) WSFO ID: OMA Product Category: FLS Product Designator: OAX Addressee: 000 Then MB1 click the 'Enter' button.	The Areal Flood Advisory text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
971.	Verify the Areal Flood Advisory text contains the Areal Flood Template Parameters selected.	The if not generic flood advisory, Hydrologic conditions/causes if applicable, and CALLS TO ACTION exist in the Areal Flood Advisory statement.	
972.	Verify the Areal Flood Advisory text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
973.	Verify the Areal Flood Advisory text contains the counties encompassed by the polygon. Verify cities in the warning polygon are included in the pathcast.	The counties are listed in the Areal Flood Advisory statement. The cities in the warning polygon are included in the warning.	
974.	Verify the Areal Flood Advisory text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.NEW.KOAX.FA.Y.xxxx.YYMMDDTHHmmZ-YYMMDDTHHmmZ/ /OOOOO.O.ER.000000T0000Z-000000T0000Z.000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
975.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
976.	Verify the text warning contains a presence of closing $$.	The Areal Flood Advisory text contains a presence of closing $$.	

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Step	Action	Result	Pass/Fail
977.	In the text window, replace the '!**WARNING BASIS**!' and ''!--*optional description of the path of the flood--!' lines with a word or phrase and the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Areal Flood Advisory is saved. The text window displays the saved warning.	
978.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFLSOAX' window (not in edit mode).	
979.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
980.	Close the Text Warngen: OMAFLSOAX window.	The Text Warngen: OMAFLSOAX window closes.	
981.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button. Select 'Areal Flood Advisory' from the dropdown menu adjacent to the 'Other' radio button. Then verify three lines similar to the following appear: • 'COR.KOAX.FA.Y.xxxx(NEW)' • 'NEW.KOAX.FA.Y.xxxx' • 'EXT.KOAX.FA.Y.xxxx'	Verified.	
Cancelling an Areal Flood Advisory (CAN)			
982.	In the WarnGen GUI, MB1 click the 'Other' radio button. Select 'Areal Flood Advisory Followup' from the dropdown menu adjacent to the 'Other' radio button. From the 'FOLLOWUP' dropdown menu, select the 'CAN' product.	The polygon appears. The polygon is uneditable as indicated by the small triangle vertex points. The bulletins are grayed out.	
983.	MB1 click the 'Create Text' button.	The Areal Flood Statement text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	

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Step	Action	Result	Pass/Fail
984.	In the AWIPS Header Block, verify the following selections are set: • TTAAii: SAUS43 • CCCC: KOAX • BBB: NOR • BBB Version: A (grayed out) • WSFO ID: OMA • Product Category: FLS • Product Designator: OAX • Addressee: 000 Then MB1 click the 'Enter' button.	The Areal Flood Statement text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
985.	Verify the Areal Flood Statement text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	
986.	Verify the Areal Flood Statement text contains the counties encompassed by the polygon.	The counties are listed in the Areal Flood Statement text.	
987.	Verify the Areal Flood Statement text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.CAN.KOAX.FA.Y.xxxx.000000T0000Z-YYMMDDTHHmmZ/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
988.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
989.	Verify the text warning contains a presence of closing $$.	The Areal Flood Statement text contains a presence of closing $$.	
990.	In the text window, replace the '!**EXPLANATION**!' line with a word or phrase and the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Areal Flood Statement is saved. The text window displays the saved warning.	
991.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFLSOAX' window (not in edit mode).	

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Step	Action	Result	Pass/Fail
992.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
993.	Close the Text Warngen: OMAFLSOAX window.	The Text Warngen: OMAFLSOAX window closes.	
Expiring an Areal Flood Advisory (EXP)			
994.	Open a terminal and navigate to the flas_default.cfg file (e.g., cave/etc/warngen). Then type 'ls' to view the files.	The eww_default.cfg file is present.	
995.	Modify the file (vi) by adding '<duration>20</duration>' Under the <durations> section.	The modifications are made.	
996.	Save the changes (wq!).	The modifications are saved.	
997.	MB1 click on the 'WarnGen' button in the tool bar.	The WarnGen application loads. A 'Drag me to Storm' labeled point displays in the center of the CAVE display. This point is in edit mode. The WarnGen window appears.	
998.	In the main pane, click and hold MB1 on the 'Drag me to Storm' point and drag it to another location.	A southwest-northeast oriented vector appears with the point near the center of the line, tick marks, and time values at the starting point, current/endpoint, and arrowhead. An initial warning area hatched box appears.	
999.	In the 'WarnGen' window, select the following: -Track type: One Storm -Edit: Box and Track	The selections are made as indicated by the radio buttons.	
1000.	MB1 click on the 'Other' radio button in the 'Product type' section. Then select 'Areal Flood Advisory Followup' form the dropdown menu.	The selection is made as indicated by the radio button. The if not generic flood advisory, Hydrologic conditions/causes if applicable, and CALLS TO ACTION sections update to display items applicable for Areal Flood Advisories. The storm motion vector is removed from the main display, leaving only the hatched polygon.	
1001.	Select the 'Duration:' to 20 minutes.	The duration is set to 20 minutes. The ending time of the warning updates with the change in duration.	

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Step	Action	Result	Pass/Fail
1002.	MB1 click and hold on a vertex and dragging it to another location outside the koax's CWA boundary. At the same time, ensure that multiple KOAX counties are included in the warning polygon.	The hatched area expands within the enclosed box up to the CWA boundary but does not cross over the CWA boundary. Multiple KOAX counties are included in the polygon. Note: If the polygon encompasses a portion of a county less than a specified percentage of the size of a county, the portion will not be hatched.	
1003.	In the WarnGen GUI, MB1 click on the 'Warned/Hatched Area' button under the 'Redraw Box on Screen from:' section.	The polygon's vertices are redrawn on the vector snapping back to the CWA border while creating additional vertices. Portions of the county not hatched, as discussed in step 39, are not included in the updated polygon.	
1004.	MB1 within the Optional bullets section, select items such that the following Areal Flood Template Parameters are highlighted: • if not generic flood advisory: small streams • Hydrologic conditions/causes if applicable: rapid river rises • CALLS TO ACTION: A flood advisory means Then click MB1 on the 'Create Text' button.	The Areal Flood Advisory text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
1005.	In the AWIPS Header Block, verify the following selections are set: • TTAAii: SAUS43 • CCCC: KOAX • BBB: NOR • BBB Version: A (grayed out) • WSFO ID: OMA • Product Category: FLS • Product Designator: OAX • Addressee: 000 Then MB1 click the 'Enter' button.	The Areal Flood Advisory text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
1006.	In the text window, replace the '!**WARNING BASIS**!' and ''!--*optional description of the path of the flood--!' lines with a word or phrase and the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Areal Flood Advisory is saved. The text window displays the saved warning.	

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Step	Action	Result	Pass/Fail
1007.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFLSOAX' window (not in edit mode).	
1008.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
1009.	Close the Text Warngen: OMAFLSOAX window.	The Text Warngen: OMAFLSOAX window closes.	
1010.	MB1 click the WarnGen button in the toolbar and select the 'Other' radio button. Select 'Areal Flood Advisory Followup' from the dropdown menu adjacent to the 'Other' radio button. Then MB1 click the 'FOLLOWUP' dropdown menu to verify the created warning is able to expired (EXP). Verify the line similar to the following appears: • EXP.KOAX.FA.Y.xxxx	The warning is ingested as verified by observing that the ingested warning can be expired (EXP).	
1011.	Select the EXP product.	The polygon appears. The polygon is uneditable as indicated by the small triangle vertex points. The bulletins are grayed out.	
1012.	MB1 click the 'Create Text' button.	The Areal Flood Advisory text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.	
1013.	In the AWIPS Header Block, verify the following selections are set: • TTAAii: SAUS43 • CCCC: KOAX • BBB: NOR • BBB Version: A (grayed out) • WSFO ID: OMA • Product Category: FLS • Product Designator: OAX • Addressee: 000 Then MB1 click the 'Enter' button.	The Areal Flood Statement text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.	
1014.	Verify the Areal Flood Statement text contains the current date and time attributes and the correct header information.	The date and time attributes exist. The header information is correct.	

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Step	Action	Result	Pass/Fail
1015.	Verify the Areal Flood Statement text contains the counties encompassed by the polygon.	The counties are listed in the Areal Flood Statement text.	
1016.	Verify the Areal Flood Statement text contains the VTEC code above the BULLETIN section. The VTEC code should be in the following format: /O.EXP.KOAX.FA.Y.xxxx.000000T0000Z-YYMMDDTHHmmZ/ /OOOOO.O.ER.000000T0000Z-000000T0000Z.000000T0000Z.00/ Where the date and time attributes in the VTEC code match the warning's start and end dates and times (UTC).	The VTEC code exists and is accurate.	
1017.	Verify the Lat/Lon coordinates appear in the text warning product (E.g., LAT…LON 4471 9981 4488 9977…).	The Lat/Lon information exists in the text product.	
1018.	Verify the text warning contains a presence of closing $$.	The Areal Flood Statement text contains a presence of closing $$.	
1019.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. MB1 click the 'Save' button. Then MB1 click the 'Send' button.	The Areal Flood Statement is saved. The text window displays the saved warning.	
1020.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMAFLSOAX' window (not in edit mode).	
1021.	Ingest the warning text file into the 'warning' endpoint (/awips/edex/opt/data/sbn/warning). (Note: The created warning needs to be manually ingested for display in WarnGen. Direct save to ingest will be implemented in a later TO.)	The warning is ingested.	
1022.	Close the Text Warngen: OMAFLSOAX window.	The Text Warngen: OMAFLSOAX window closes.	
1023.	MB1 click the WarnGen button in the toolbar, select the 'Other' radio button. Select 'Areal Flood Statement' from the dropdown menu adjacent to the 'Other' radio button. Verify in the 'FOLLOWUP' dropdown menu that an expired product (EXP) that appears as follows: • 'COR.KOAX.FA.Y.xxxx(EXP)'	The warning is ingested as verified by observing that the expired product (EXP) exists in the Update List dropdown menu.	
1024.	Close the WarnGen GUI.	The WarnGen GUI closes.	
End of TO10 Test			

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5.0 TO8 REQUIREMENTS VERIFICATION TRACEABILITY MATRIX (RVTM)

Number	Description	Test Step(s)
CAVE_TO8_013	CAVE shall contain a WarnGen capability	4-1024
CAVE_TO8_013.1	A 'WarnGen: Operational' GUI shall display when the WarnGen button is selected from the menu bar	4
CAVE_TO8_013.3	WarnGen shall allow the user to designate the type of warning	41
CAVE_TO8_013.4	WarnGen shall allow the user to select to warn on a single storm	175
CAVE_TO8_013.5.3	WarnGen shall allow the user to issue a Tornado Warning for a single storm	33-38
CAVE_TO8_013.16	WarnGen shall allow the user to designate the duration of the warning	7-9
CAVE_TO8_013.18	WarnGen shall allow the user to establish a storm track	10-21
CAVE_TO8_013.19	WarnGen shall allow the user to establish a warning area	33
CAVE_TO8_013.19.1	WarnGen shall allow the user to redraw the warning box in CAVE using MB1 in the WarnGen: Operational window	33-40
CAVE_TO8_013.20	WarnGen shall allow the user to select optional text bullets to be included in the warning text	43
CAVE_TO8_013.22	WarnGen shall allow the user to send the warning information to the text window	43
CAVE_TO8_013.28	WarnGen shall allow the user to Create the Text using MB1 on the 'Create Text' button	43
CAVE_TO8_013.28.1	WarnGen shall translate the storm path into text describing the speed and direction of the storm, and the counties and cities affected by the warning	47
CAVE_TO8_013.28.2	WarnGen shall generate the warning text that includes any optional bullets selected	45
CAVE_TO8_013.28.3	WarnGen text warning shall contain correct header information	46
CAVE_TO8_013.28.4	WarnGen text warning shall contain proper UGC and VTEC codes	48
CAVE_TO8_013.28.5	WarnGen text warning shall maintain time and Time Zone consistency	46
CAVE_TO8_013.28.6	WarnGen text warning shall contain correct product type	45
CAVE_TO8_013.28.8	WarnGen text warning shall contain a presence of closing $$	51
CAVE_TO8_013.32	CAVE shall contain the Warning by Polygon functionality	34-40
CAVE_TO8_013.32.1	CAVE shall draw a hatched area encompassed by the drawn polygon	34-40
CAVE_TO8_013.32.2	The hatched area shall be described by the LAT…LON coordinates in the text warning product	49
CAVE_TO8_013.32.3	WarnGen shall not allow the warned area to cross over CWAs	46
CAVE_TO8_013.32.8	WarnGen shall encode the location and motion of the weather event below the LAT…LON line in the text warning product	50
CAVE_TO8_013.33	WarnGen shall be activated by using MB1 on the yellow WarnGen button on the CAVE menu bar	4

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Number	Description	Test Step(s)
EDEX_T08_019.16	EDEX shall implement VTEC coding through WarnGen	54-59

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6.0 TO9 REQUIREMENTS VERIFICATION TRACEABILITY MATRIX (RVTM)

Number	Description	Test Step(s)
SYSR3054	The AWIPS System shall create the SVR - Severe Thunderstorm Warning product as produced by the Public and Fire Weather Services WarnGen Application.	171-200
SYSR3055	The AWIPS System shall create the SVS - Severe Weather Statement product as produced by the Public and Fire Weather Services WarnGen Application.	78-90
SYSR3056	The AWIPS System shall create the TOR - Tornado Warning product as produced by the Public and Fire Weather Services WarnGen Application.	33-52

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7.0 TO10 REQUIREMENTS VERIFICATION TRACEABILITY MATRIX (RVTM)

Number	Description	Test Step(s)
SYSR3122	The AWIPS system shall implement WarnGen, GHG (Gridded Hazard Generator), and product life cycle (assumes workstation test mode is adequate for testing).	4-1024
SYSR3315	WarnGen: AWIPS II shall have a FLW product/template.	744-746
SYSR3316	WarnGen:AWIPS II shall have a FLS product/template with EXT followup.	837-901

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8. WARNGEN INGEST INSTRUCTIONS

WARNING INGEST INSTRUCTIONS		
Step	**Action**	**Result**
1.	Mouse Button (MB) 1 click 'CAVE' -> 'New' -> 'Text Workstation'	The Text Workstation and Text 1 windows open. (Note: The Text 1 window may be closed.)
Tornado Warning		
Issuing initial Tornado Warning		
2.	MB1 click on the 'WarnGen' button in the tool bar.	The WarnGen application loads. A 'Drag me to Storm' labeled point displays in the center of the CAVE display. This point is in edit mode. The WarnGen GUI appears.
3.	In the main pane, click and hold MB1 on the 'Drag me to Storm' point and drag it to another location.	A southwest-northeast oriented vector appears with the point near the center of the line, tick marks, and time values at the starting point, current/endpoint, and arrowhead. An initial warning area hatched box appears.
4.	Press the right arrow key on the keyboard once.	The point is relabeled 'Drag me to Storm' and appears at the starting point of the vector.
5.	MB1 click and hold the 'Drag me to Storm' point and drag it to another location.	The vector rotates accordingly. The spacing between the tick marks adjusts accordingly. The hatched warning box remains at its current position.
6.	In the 'WarnGen' window, select the following: -Track type: One Storm -Edit: Box and Track	The selections are made as indicated by the radio buttons.
7.	Click MB1 on the 'Track' button under the 'Redraw Box on Screen from:' section.	The hatched box is redrawn on the vector.

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WARNING INGEST INSTRUCTIONS		
Step	**Action**	**Result**
8.	MB1 click and hold on a vertex and dragging it to another location outside the koax's CWA boundary. At the same time, ensure that multiple KOAX counties are included in the warning polygon.	The hatched area expands within the enclosed box up to the CWA boundary but does not cross over the CWA boundary. Multiple KOAX counties are included in the polygon. Note: If the polygon encompasses a portion of a county less than a specified percentage of the size of a county, the portion will not be hatched.
9.	MB1 click on the 'Warned/Hatched Area' button under the 'Redraw Box on Screen from:' section.	The polygon's vertices are redrawn on the vector snapping back to the CWA border while creating additional vertices. Portions of the county not hatched are not included in the updated polygon.
10.	MB1 click on 'Tornado' in the 'Product type' section.	The selection is made as indicated by the radio button. The BASIS FOR WARNINGS and CALLS TO ACTION sections update to display items applicable for Tornado Warnings.
11.	Select the 'Duration:' to 30 min.	The duration is set to 30 min. The ending time of the warning updates with the change in duration. The vector contracts and the time at the arrowhead modify.
12.	MB1 within the Optional bullets section, select items such that the following Tornado Template Parameters are highlighted: BASIS FOR WARNING: Confirmed large tornado CALLS TO ACTION: Severe Tornado CALLS TO ACTION: If caught outside CALLS TO ACTION: Don't outrun in car Then click MB1 on the 'Create Text' button.	The Tornado Warning text appears in a 'Text Warngen' window. An 'AWIPS Header Block' window appears.
13.	MB1 click the 'Enter' button.	The Tornado Warning text remains displayed in the text window in edit mode. The AWIPS Header Block window closes.

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WARNING INGEST INSTRUCTIONS		
Step	**Action**	**Result**
14.	In the text window, replace the '!**NAME/INITIALS**!' line with the user's initials. Then MB1 click the 'Send' button.	The Tornado Warning is saved. The text window displays the saved warning.
15.	MB1 click the 'Cancel' button and MB1 click the 'Yes' button in the message box that states 'Any unsaved changes will be lost. Cancel anyway?'.	A Confirm Cancel window opens. The Confirm Cancel window closes. The warning remains displayed in the 'Text WarnGen: OMATOROAX' window (not in edit mode).
16.	In the Text WarnGen: OMATOROAX window, 'Ctrl+A' to highlight the entire warning text message. Then 'Ctrl+C' to copy the entire warning text message.	The entire warning text message is highlighted and then copied.
17.	Open an OpenOffice.org Writer session (Notepad or WordPad will also work).	An OpenOffice.org window opens.
18.	In the OpenOffice.org window, 'Ctrl+V' to paste the entire warning text message onto the document. (Note: If an existing document is to be used, 'Ctrl+A' to highlight the text to be replaced, then 'Ctrl+V' to paste the entire warning text message onto the document.	The entire warning text message appears in the OpenOffice.org window.
19.	MB1 click 'File' -> 'Save As…' to bring up the Save As – OpenOffice.org window.	The Save As – OpenOffice.org window opens.
20.	Save the document as a Text (.txt) document to a chosen location.	The warning text product is saved to the selected location.
21.	Once saved, open a terminal.	A terminal opens.
22.	Ingest the warning text file into the 'warning' endpoint by typing the following: scp <WarningName.txt> <PrimaryEDEXServer>:/<WarningEndpointLocation For example: scp Warning1.txt <PrimaryEDEXServer>:/awips/ade/edex/opt/data/sbn/warning)	The warning is ingested.
23.	Close the Text Warngen: OMATOROAX window.	The Text Warngen: OMATOROAX window closes.
24.	MB1 click the WarnGen button in the toolbar and select the 'Tornado' radio button. Then MB1 click the 'Correct/Reissue' dropdown menu to verify the created warning is able to be corrected (COR) or reissued (NEW). COR.KOAX.TO.W.xxxx(NEW) NEW.KOAX.TO.W.xxxx	The warning is ingested as verified by observing that the ingested warning can be corrected (COR) or reissued (NEW).
Verifying the Tornado Warning was ingested via log files		
25.	Open a terminal window.	A terminal window opens.

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WARNING INGEST INSTRUCTIONS		
Step	**Action**	**Result**
26.	In the terminal window, ssh onto the server. Navigate to the edex log files (e.g., /awips/edex/logs). Then grep for KOAX (e.g., grep KOAX edex-<date>.log). Verify the warning with the same etn number has been ingested.	Verified.
Verifying the Tornado Warning exists in the database		
27.	Open pgAdmin and MB1 click '<SERVER>' -> 'Databases' -> 'metadata' -> 'Schemas' -> 'awips' -> 'Tables'. Then MB1 click once on 'warning'.	The warning file becomes highlighted.
28.	MB1 click the button to view the table. Scroll to the bottom of the table to view the ingested warning.	The ingested warning is in the warning table.
29.	Close all applications	All applications close.

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