



DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric
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1325 East-West Highway
Silver Spring, Maryland 20910-3283

JUN 22, 2009

MEMORANDUM FOR: Distribution

FROM: Neal DiPasquale (Acting)
Director, Field Systems Operations Center

SUBJECT: Mini-Operational Test & Evaluation Test (OT&E) Report for the All Hazards Emergency Message Collection System (HazCollect), dated June 2009

Attached for your information is a copy of the subject test report defining how the National Weather Service (NWS) conducted the Mini-Operational Test & Evaluation (OT&E) of the All Hazards Emergency Message Collection System (HazCollect). The OT&E was initially performed from March 16 through March 27, 2009.

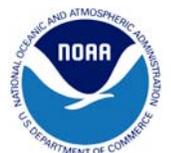
The HazCollect OT&E was conducted with the following NWS Weather Forecast Offices (WFOs):

- WFO Paducah (PAH), KY
- WFO San Francisco Bay Area/Monterey (MTR), CA
- WFO Sacramento (STO), CA
- WFO Honolulu (HFO), HI.

At the Wrap-Up meeting on March 31, 2009, the Test Review Group (TRG) agreed to extend the OT&E through April 3, 2009, to accommodate requested retests from the Office of Science & Technology (OS&T). After additional retests were successfully performed, the TRG reconvened on April 3, 2009, and unanimously recommended HazCollect to proceed to initial operating capability (IOC).

Please direct any comments or questions to the OT&E Director, Bert Vilorio, OPS24, at 301-713-326 x131, (Bert.Vilorio@noaa.gov) or Jae Lee, OPS24, at 301-713-0326 x158, (Jae.Lee@noaa.gov)

Attachment



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MINI-OPERATIONAL TEST & EVALUATION (OT&E) REPORT

For the
**All-Hazards Emergency
Message Collection System (HazCollect)**

June 2009

**U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service/Office of Operational Systems
Field Systems Operations Center/Test and Evaluation Branch**

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Executive Summary

This test report contains the test and evaluation results from the Mini-Operational Test & Evaluation (OT&E), conducted by the National Weather Service (NWS), for the All Hazards Emergency Message Collection System (HazCollect) in preparation for Initial Operating Capability (IOC) scheduled for April 2009. The report includes the test objectives and criteria, Test Trouble Reports (TTRs), test results, and recommendations.

The HazCollect system underwent an Operational Acceptance Test (OAT) from June 5, 2006 through July 21, 2006; a Field Operational Demonstration Test (FOD) from November 6, 2006 through November 22, 2006 to test fixes and solutions for problems found during the OAT; and a Follow-On Test & Evaluation (FOTE) from September 17 through December 5, 2008 due to recent changes in network connectivity. After the FOTE, additional problems and issues were documented. The Office of Operational Systems, Test & Evaluation Branch (OPS24) was responsible for conducting all the operational tests. Results were recorded in test reports available on the OPS24 website:

http://www.nws.noaa.gov/ops2/ops24/documents/hazcollect_docs.htm

After the FOTE, the Office of Science and Technology (OS&T) included fixes to four of the previously reported Test Trouble Reports (TTRs) (#55, 56, 61, 65). OS&T performed a successful System Test (ST) from February 25 through March 10, 2009. Subsequently, OPS24 was requested by OS&T to conduct, monitor, and report the Mini-OT&E for two weeks. The Mini-OT&E was initially scheduled for the period March 16 through March 27, 2009, but was extended through April 3, 2009 to accommodate OS&T requested retests.

The HazCollect Mini-OT&E was conducted with the following NWS Weather Forecast Offices (WFOs):

- WFO Paducah (PAH), KY
- WFO San Francisco Bay Area/Monterey (MTR), CA
- WFO Sacramento (STO), CA
- WFO Honolulu (HFO), HI.

Before the start of the Mini-OT&E, a Readiness Review meeting was conducted on March 11 2009, by OPS24 and confirmed all prerequisites listed from the test strategy were met.

Overall, the HazCollect system was able to transmit test messages successfully during the Mini-OT&E without any adverse impact to the test sites.

- The national message test was successfully conducted on March 19, 2009 with a few minor NOAA Weather Radio All-Hazards Console Replacement System (CRS) and/or Advanced Weather Interactive Processing System (AWIPS) configuration issues.
- The test team coordinated with WFO PAH for the end-to-end dissemination testing with their local emergency manager (EM).
- The test team worked with WFO MTR, WFO STO, and WFO HFO to conduct, witness, and oversee the Disaster Management Interoperability Services (DMIS) Open Platform for Emergency Networks (OPEN) Application Programming Interface (API) demonstration.

- The test team successfully confirmed all of the test objectives, except for the system failover ingest and outgoing testing (TTR #65 and #67) and HazCollect server mode update display (TTR #55).

On March 31, 2009, OPS24 hosted the HazCollect OT&E Wrap-Up meeting with the Test Review Group (see **Attachment A**) consisting of NWS headquarters personnel, NWS Employees Organization (NWSEO) representative, regional and FOTE site focal points, and local emergency managers from Contra Costa County CA, Daviess County KY, and from the State of Hawaii.

During the meeting, OPS24 reported the test results and identified outstanding trouble reports. The TRG agreed that a reasonable and acceptable workaround has been identified for TTR #55 which would include a manual HazCollect mode server update for all servers at the same time. OS&T reported they have found new fixes to TTRs #65 and #67 and requested a retest of the system failovers issues (TTR #65 and #67) before the TRG voted for their recommendations. The TRG agreed to the retest and OPS24 was requested to extend the OT&E and retest the system failovers.

On April 1 and 2, the test team successfully confirmed resolution of TTRs #65 and #67. On Friday April 3 2009, the TRG reconvened and unanimously recommended HazCollect to proceed to IOC. The OT&E officially ended April 3, 2009.

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Acronyms

ADR	Administrative/Follow-up Message
API	Application Programming Interface
AWIPS	Advanced Weather Interactive Processing System
C & A	Certification and Accreditation
CAP	Common Alerting Protocol
COG	Collaborative Operations Group
CRS	Console Replacement System
DHS	Department of Homeland Security
DMIS	Disaster Management Interoperability Services
EM	Emergency Manager
FIPS	Federal Information Processing Standard
FOC	Final Operating Capability
FOD	Field Operational Demonstration
FOTE	Follow-On Operational Test & Evaluation
HazCollect	All Hazards Emergency Message Collection System
IOC	Initial Operating Capability
MIC	Meteorologist In Charge
NCF	Network Control Facility
NOAA	National Oceanic and Atmospheric Administration
NWEM	Non-weather emergency message
NWSEO	National Weather Service Employees Organization
NWR	NOAA Weather Radio All Hazards
NWRWAVES	NOAA Weather Radio with All-Hazards VTEC Enhanced Software
NWS	National Weather Service
NWSTG	National Weather Service Telecommunications Gateway
NWWS	NOAA Weather Wire Service
OAT	Operational Acceptance Test
OB	Operational Build
OCWWS	Office of Climate, Water, and Weather Services
OPEN	Open Platform for Emergency Networks
OPS24	Office of Operational Systems, Test &Evaluation Branch
OST	Office of Science and Technology
PNS	Public Notification Statement
POC	Point of Contact
SAME	Specific Area Message Encoding
ST	System Test
TRG	Test Review Group
TTR	Test Trouble Report
VTEC	Valid Time Event Code
WCM	Warning Coordination Meteorologist
WFO	Weather Forecast Office
WMO	World Meteorological Organization
WSH	National Weather Service Headquarters

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1.0 Introduction

This test report contains the test and evaluation results from the Mini-Operational Test & Evaluation (OT&E), conducted by the National Weather Service (NWS), for the All Hazards Emergency Message Collection System (HazCollect) in preparation for Initial Operating Capability (IOC) scheduled for April 2009. The report includes the test objectives and criteria, Test Trouble Reports (TTRs), test results, and recommendations.

The HazCollect system underwent an Operational Acceptance Test (OAT) from June 5, 2006 through July 21, 2006; a Field Operational Demonstration Test (FOD) from November 6, 2006 through November 22, 2006 to test fixes and solutions for problems found during the OAT; and a Follow-On Test & Evaluation (FOTE) from September 17 through December 5, 2008 due to recent changes in network connectivity. After the FOTE, additional problems and issues were documented. The Office of Operational Systems, Test & Evaluation Branch (OPS24) was responsible for conducting all the operational tests. Results were recorded in test reports available on the OPS24 website:

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After the FOTE, the Office of Science and Technology (OS&T) included fixes to four of the previously reported Test Trouble Reports (TTR) (#55, 56, 61, 65). OS&T performed a successful System Test (ST) from February 25 through March 10, 2009. Subsequently, OPS24 was requested by OS&T to conduct, monitor, and report the Mini-OT&E for two weeks. The Mini-OT&E was initially scheduled for the period March 16 through March 27, 2009, but was extended through April 3, 2009 to accommodate OS&T requested retests.

The HazCollect OT&E was conducted with the following NWS Weather Forecast Offices (WFOs):

- WFO Paducah (PAH), KY
- WFO San Francisco Bay Area/Monterey (MTR), CA
- WFO Sacramento (STO), CA
- WFO Honolulu (HFO), HI.

Before the start of the Mini-OT&E, a Readiness Review meeting was conducted by OPS24 and confirmed all prerequisites listed from the test strategy were met.

2.0 Purpose

The purpose of the HazCollect OT&E was to verify the end-to-end operation of the HazCollect system, including the verification of TTRs #55, #56, #61, and #65, in preparation for IOC scheduled in April 2009. Test messages were generated using the Disaster Management Interoperability Services (DMIS) user interface client v2.3.3 software or third party vendor Open Platform for Emergency Networks (OPEN) Application Programming Interface (API)-compliant software, the HazCollect server software, and at specified NWS dissemination infrastructure verification points [e.g., NOAA Weather Wire Service (NWWS), NWR CRS, and NWR “Public Alert Certified” receivers].

3.0 OT&E Test Activities

The OT&E was performed with specific WFOs (see **Attachment B**) representing three NWS regions and four test sites. The OT&E started in March 16, 2009 and officially ended in April 3, 2009. Each of the OT&E sites started their OT&E with specific purposes namely:

- a. WFO Paducah, KY - this test site was used for the end-to-end dissemination testing and the verification of the NOAA Weather Radio with All-Hazards Valid Time Event Code (VTEC) Enhanced Software (NWRWAVES) use as the formatter for HazCollect.
- b. WFO Sacramento, CA, WFO San Francisco Bay Area/Monterey, CA, and WFO Honolulu, HI – these test sites were used to demonstrate the end-to-end CAP message generation, using the DMIS OPEN API, for actual transmission over NOAA weather radio.

Before the start of the OT&E at a test site, the emergency managers (EM) were informed that they needed to have valid DMIS accounts and belong in Collaborative Operations Groups (COG). The test sites were also notified that they need to be configured and enabled for HazCollect. The OT&E test team verified the above requirements including the issuance of the public notification statement (PNS). The PNS messages were verified to have been issued before the start of testing, including during the national message tests.

The OT&E Testing included end-to-end verification of DMIS client generated non-weather emergency message (NWEM) messages for local, state, and National scope, verification of included TTRs fixed for the build, DMIS OPEN API demonstration using third party software, failover and recovery testing, and limited NWRWAVES testing.

3.1 TTR Verification

OS&T identified TTRs whose fixes are included in the HazCollect build used for the OT&E:

- a. **TTR 55: HazCollect server mode not saved in all servers.**
During the OT&E, this TTR was retested but failed as the mode server was still not updated across all servers. A reasonable workaround has been identified which would include a manual server mode update for all servers at the same time. The system impact will require the HazCollect system administrator at least 2-5 minutes to manually change all modes. The user impact would be that user messages are not assured of proper dissemination until the server modes have been applied for all servers between 2-5 minutes.
- b. **TTR 56: HazCollect message queue data are not available for display in all servers.**
During the OT&E failover testing, the message queue data were successfully confirmed to be displayed for all servers. *TTR #56 has been CLOSED.*
- c. **TTR 61: DMIS/HazCollect posting incorrect time standard (Standard Time vs. Daylight Savings time) on NWEM messages.**

During the OT&E testing, Neil Bourgeois, from the Department of Homeland Security (DHS), provided Java file updates for the HazCollect server and to the DMIS client software. Sean Payne (UACS) loaded the Java file updates on the HazCollect server and OPS24 installed the latest Java file on the test computer where the DMIS client v2.3.3 software is loaded. On March 18, 2009, the incorrect time issue was successfully retested. Neil Bourgeois and Rick Hauschildt (DHS/DMIS) added that the DHS is currently working on providing the Java file fix via the update function by the summer of 2009 where client users can easily update their DMIS client software. Without the fix, the problem would not re-occur until the change from Daylight Savings Time (DST) to Standard Time on October 25, 2009. TTR #61 has been CLOSED.

d. TTR 65: FOTE failover for outgoing test for the backup rack

During the initial OT&E failover testing, this TTR was tested and failed. Per OS&T's fixes on March 31, 2009 and request for retest, the test team successfully confirmed the failover outgoing tests on April 2 (see discussion in **Section 3.3**). TTR #65 has been CLOSED.

3.2 End-to-End Dissemination

From March 16 through March 27, 2009, Walter Atherton (Daviness County, KY EM) was able to successfully generate test Administrative/Follow-Up messages (ADR) using his DMIS client software v2.3.3 software. He was able to validate the test message broadcast on NOAA weather radios including the Specific Area Message Encoding (SAME) tones. He was also able to confirm receipt of the test ADR messages via his local alerting dissemination devices.

3.3 Failover Ingest/Outgoing Tests

On March 16, 2009, the OT&E failover ingest testing was conducted by OPS24 and CIO. The test team noted that on Test #4, the system became non-operational after both Routers 1 and 2 were disconnected from the HazCollect Rack 1 (Silver Spring, MD). The DMIS client was also not able to generate any HazCollect NWEM message as the mode server was designated as UNKNOWN. At this point, OPS24 suspended the OT&E and generated a new **TTR #67** (see **Attachment C**) to document the ingest failover failure. The next day, March 17, OS&T was able to revert the system back to operational status and the OT&E was resumed.

On March 20, OPS24 and CIO continued with the failover outgoing testing and were able to reproduce the outstanding outgoing failures documented in **TTR #65**. For TTR #65, the test ADR messages sent were not accounted for when the output line switch from the HazCollect server to the NWSTG was shutdown for both Rack 1 switches (Test #11); for when both Rack 1 switches and the Backup Telecommunications Gateway (BTG) custom (CUST) switch from Rack 2 (Mt. Weather) were shutdown (Test #12); and for when both Rack 1 switches and the BTG CUST switch 2 from Rack 2 were shutdown (Test #13).

At the HazCollect Wrap-Up meeting held on March 31, OPS24 presented the results and the failover failures. Subsequently, OS&T announced that they have fixes for both TTR #65 and #67 and requested additional failover retests. The TRG agreed to the failover retests and the OT&E was extended. On April 1 and 2, OPS24 and CIO successfully confirmed the fixes for TTR #65 and TTR #67. Consequently, both TTR #65 and #67 have been CLOSED.

3.4 National Message Test

Before the actual national message test, all of the regional focal points and the test site focal points were notified, by the Office of Climate, Water, and Weather Services (OCWWS) and OPS24, of the upcoming national message pretest requirements and reporting process. The notifications included samples for the PNS which are to be updated per WFO and broadcasted before the actual national message test. The notifications also included the test reporting documentation for how to check and report back any problems found during the test.

The national message test was successfully performed on March 19, 2009. After the test, there were six reported problems from the different field offices (see **Attachment E**), but these were mostly Advanced Weather Interactive Processing System (AWIPS), NOAA Weather Radio All-Hazards Console Replacement System (CRS) database, and/or configuration setup related issues. A valid issue occurred at WFO Paducah, KY where the test ADR message went through AWIPS but was not sent to CRS due to NWRWAVES formatter problems. Note that WFO Paducah was a test site to verify NWRWAVES formatter use in HazCollect (see **Section 3.0a**). Deanna Lindstrom from WFO PAH immediately recognized that the “000” area setting needed to be added to the NWRWAVES database to support the state messages. OPS24 generated a new **TTR #68** to document this NWRWAVES setup failure (see **Attachment C**).

Subsequently the Software Branch (OPS23) provided the “000” setup and other product configuration requirements instructions to WFO PAH. Additionally, a Kentucky state message retest was successfully conducted on March 26, 2009. All of the required ADR messages were verified to be broadcasted by WFO PAH, including all the required SAME tones. *TTR #68 has been CLOSED.*

3.5 DMIS OPEN API Demonstration

The DMIS OPEN API demonstration was first demonstrated on March 17, 2009 with Art Botterell (Contra Costa County, CA EM), Tomer Petel (Hormann America), WFO STO, WFO MTR, UACS (contractor), Neil Bourgeois (DHS/DMIS), and OPS24. Art Botterell generated a CAP message using his CAP editor. The message was then sent to Hormann America’s CapConHC software which took Art Botterell’s ADR message, formatted the CAP message, per DMIS OPEN API version 1.1, and redirected to the DMIS server. This message was then successfully delivered to the HazCollect server and successfully broadcasted by the WFO STO and WFO MTR over weather radio.

On March 18, 2009, this same test scenario was repeated successfully with Tom Simon (State of Hawaii EM), Tomer Petel, WFO HFO, OPS24, and Herb White (OS51). While the message was also broadcasted successfully through WFO HFO transmitter, Herb White noticed some format/contents errors from the resulting World Meteorological Organization (WMO) message as it has been converted from the CAP message including:

- a. The time zone value of the WMO message was incorrectly set to Pacific Daylight Time (PDT). Tomer responded that his CapConHC software (set to PDT) was incorrectly inserting his own time zone into the message. Tomer confirmed that this is an issue and will be resolved in the future. Tomer temporarily changed his computer time zone to

Hawaii Standard Time (HST) and another test ADR message (Active/Test) was generated and sent. The WMO message as verified on the HazCollect message queue contained the proper HST time zone.

- b. The second line of the bulletin section of the WMO should have been the event description. However, on the resulting WMO message, it was displaying the headline value (shown in italic red):

BULLETIN - EAS ACTIVATION REQUESTED
THIS MESSAGE IS FOR TEST PURPOSES ONLY.
HI STATE CIVIL DEFENSE HONOLULU HI
RELAYED BY NATIONAL WEATHER SERVICE HONOLULU HI
1008 AM PDT WED MAR 18 2009

The value should have been: ADMINISTRATIVE MESSAGE/FOLLOW UP STATEMENT

- c. The "following message is transmitted" section should have the name of the COG as the value of <senderName>. However, on the resulting WMO message it was displaying the value of <sender> (shown in italic red):

THE FOLLOWING MESSAGE IS TRANSMITTED AT THE REQUEST OF THE
TOM.STATE@WEBFORM-SCD.HAWAII.GOV.

The value should have been: HI STATE CIVIL DEFENSE

On the previous DMIS OPEN API demo with Art Botterell on March 17, his resulting WMO message only incurred the erred condition on (c).

At the HazCollect Wrap-Up meeting held on March 31 2009, OPS24 presented the DMIS OPEN API demonstration results to the TRG. Herb White (OS51) recommended that there needs to be better documentation which will include precise instructions to mitigate the format/contents issues. An action item (see **Section 6.0 Recommendations**) has been generated for Steve Pritchett (OST11) to include clarification in the HazCollect Memorandum of Agreement (MOA), between NWS and DHS, for this additional/updated information.

3.6 NWRWAVES Test

From March 16 through March 27, 2009, the WFO PAH was successfully processing incoming test ADR messages from Walter Atherton (see **Section 3.2 End-to-End dissemination**). WFO PAH was the only test site that already had the NWRWAVES setup as the formatter for HazCollect messages. On March 19, during the National Message test, WFO PAH reported that their test state ADR message did not schedule in CRS and was not broadcasted. They also initially attributed the failure due to improper NWRWAVES setup, specifically the lack of the "000" area setting in the NWRWAVES database (see **Section 3.4 National Message Test**).

Subsequently, OPS23 provided instructions to WFO PAH so they can add and/or update their NWRWAVES database. A Kentucky state retest was successfully performed on March 26, 2009 which confirmed the WFO PAH setup changes.

At the HazCollect Wrap-Up meeting held on March 31 2009, Warrick Moran (OPS23) noted that the NWRWAVES setup instructions provided to WFO PAH during the OT&E are not part of the AWIPS Operational Build (OB) 9.2 installation/distribution. According to Warrick, NWRWAVES must be setup prior to the AWIPS OB 9.2 installation because the AWIPS OB 9.2 installation will cause NWRWAVES to be used as the formatter for HazCollect instead of the CAFÉ formatter. Joseph Palko, from WFO Pittsburgh, added that NWRWAVES product setup could take up a longer time than currently expected. An action item (see **Section 6.0 Recommendations**) has been generated for WSH personnel to discuss how to properly disseminate the NWRWAVES setup instructions for HazCollect.

3.7 New COGs/users Registration

On March 24 2009, OPS24 and OS51 successfully generated a new user for a predefined COG (*NOAA NWS Telecommunications Gateway COG*) using the official HazCollect Registration website: <https://apps.weather.gov/cog/login.php>.

Subsequently, the user and COG (using proper COG ID) were successfully authorized after confirming the approval process using email receipts and responses. A COG upload file was successfully generated and subsequently uploaded on the HazCollect COG admin website. On March 26, 2009, an Active/Test ADR message, using the newly uploaded COG, was successfully generated and verified at the HazCollect server.

3.8 Database Tests

During the initial OT&E failover testing on March 16 and March 20, the database replication from Rack 1 (Silver Spring, MD) to the other Rack 2 (Mt. Weather) was not confirmed as failover failures precluded verification. At the HazCollect Wrap-Up meeting held on March 31 2009, the TRG agreed to retest the failover per new fixes from OS&T. OPS24 and CIO then proceeded to include the planned database testing with the failover retests.

On April 1 and 2, the test team updated system data, including COG information and State Federal Information Processing Standard (FIPS) codes, using the Rack 1 database at Silver Spring, MD. When the system failed over to the Mt. Weather database, these same data were successfully replicated on the Mt. Weather database. These updated data were then reverted back to their original values. Subsequently, when the database was failed back to the “Silver Spring” database, these same corrected updates were successfully verified on the “Silver Spring” database.

4.0 Test Trouble Reports

There were two new test trouble reports generated during the HazCollect OT&E. These TTRs are listed in **Attachment C**. Both of these TTRs have been adjudicated for their **Priority** and **Impact** and both have been closed per OT&E testing (see **Attachment C footnote**).

All TTRs included in the build have been resolved including three closed TTRs (56, 61, and 65) and one TTR (55) with an acceptable workaround.

A comprehensive list of OPEN and outstanding TTRs from the first OAT to the end of the Mini-OT&E are listed in **Attachment D**.

5.0 Conclusion

On March 31, 2009, OPS24 hosted the HazCollect OT&E Wrap-Up meeting with the TRG consisting of WSH personnel, NWS Employees Organization (NWSEO) representative, regional and test site focal points, and local emergency managers from Contra Costa County CA, Daviess County KY, and from the State of Hawaii.

During the meeting, OPS24 reported the test results and identified outstanding trouble reports. The TRG agreed that a reasonable and acceptable workaround has been identified for TTR #55 which would include a manual HazCollect mode server update for all servers at the same time. OS&T reported they found new fixes to TTRs #65 and #67 and requested a retest of the system failovers issues (TTR #65 and #67) before the TRG voted for recommendations. The TRG agreed to the retest and OPS24 was charged to extend the Mini-OT&E and retest the system failovers.

On April 1 and 2, the test team successfully confirmed resolution of TTRs #65 and #67. On Friday April 3 2009, the TRG reconvened and unanimously recommended HazCollect to proceed to IOC. The OT&E officially ended April 3, 2009.

5.1 Test Objectives Results

The list of all the HazCollect Mini-OT&E test objectives and results are listed in Table 1. **Per Table 1, all eight Mini-OT&E test objectives passed.** TTR #55, on retest, still failed but an acceptable workaround has been identified.

Table 1 - HazCollect OT&E Test Objectives and Results

Item	Test Objective	Results
1	Verify TTRs included in HazCollect build used for OT&E: <ul style="list-style-type: none"> • TTR #55: HazCollect mode not saved in all servers - FAIL (workaround identified) • TTR #56: HazCollect message queue data are not available for display in all servers - PASS • TTR #61: DMIS/HazCollect posting incorrect time standard(Standard Time vs. Daylight Savings Time) on NWEM message - PASS • TTR #65: FOTE failover for outgoing test for backup rack failed - PASS 	PASS
2	Verify HazCollect for end-to-end dissemination.	PASS
3	Verify failover ingest/outgoing test.	PASS
4	Verify the HazCollect national message functionality	PASS
5	Demonstrate DMIS OPEN NWEM API end-to-end functionality	PASS
6	Verify NWRWAVES use as formatter for HazCollect.	PASS
7	Verify new COGs/users registration	PASS
8	Database testing	PASS

Overall, the HazCollect system was able to transmit test messages successfully during the Mini-OT&E without any adverse impact to the test sites.

- The national message test was successfully conducted on March 19, 2009 with a few minor CRS and/or AWIPS configuration issues.
- The test team coordinated with WFO PAH for the end-to-end dissemination testing with their local EMs.
- The test team worked with WFO MTR, WFO STO, and WFO HFO to conduct, witness, and oversee the DMIS OPEN API demonstration.
- The test team successfully confirmed all of the test objectives, except for the system failover ingest and outgoing testing (TTR #65 and #67) and HazCollect server mode update display (TTR #55).

OS&T installed new fixes and requested additional system failover retests. The test team successfully performed the retests on April 1 and 2. The OT&E officially ended April 3, 2009.

6.0 Recommendations

The TRG agreed to the following recommendations/action items:

- a. Action Item #1: Steve Pritchett will include in the MOA clarification for additional and/or updated information/documentation regarding proper CAP-converted WMO contents and format (POC: Steve Pritchett).
- b. Action Item #2: NWS will discuss how to disseminate setup instructions for NWRWAVES use as the HazCollect formatter (POC: Herb White, Warrick Moran, Mike Moss, Joseph Palko, OS&T, and OPS24).

UPDATE:

An initial meeting on April 20, 2009 was setup by OPS24 with Warrick Moran, Sanford Garrard, Art Kraus, and Sung Vo. The main point of contact for this action will now be Warrick Moran. At the meeting, initial discussions included generating an AWIPS information note and configuration check scripts to verify setup. The information note will be generated by OPS23 to include the NWRWAVES setup instructions and this note will be referenced as a prerequisite on the AWIPS OB 9.2 pre-installation procedures.

Attachment A – Test Review Group Members

Name (Organization)	Function	Phone	Voting Member
Jerald Dinges (OPS24)	Test Review Group Chair	(301) 713-0326 x160	✓*
Bert Vioria (OPS24)	OT&E Director	(301) 713-0326 x131	✓
Jae Lee (OPS24)	OT&E Test Team	(301) 713-0326 x158	
Joel Williams (OST11)	HazCollect Project Manager	(301) 713-3400 x114	
Timothy Hopkins (OST31)	WSH Test Support	(301) 713-1570 x129	
Steve Pritchett (OST11)	WSH Test Support	(301) 713-3557 x172	
Herb White (OS51)	WSH Test Support	(301) 713-0090 x146	
Arthur Kraus (OS51)	WSH Test Support	(301) 713-0090 x161	
Susan Murphy (CIO12)	WSH Test Support	(301) 713-0864 x174	
Odon Dario (CIO14)	WSH Test Support	(301) 713-0510 x172	
Michael Dion	NWSEO Test Support	(301) 713-1792 x142	✓
Jeremiah Dewey (OST31)	Information Technology Security Officer	(301) 713-1570 x127	✓
John Koch (ER) John Guiney (ER1)	Eastern Region Focal Point	(631) 244-0104 (631) 244-0121	✓
Mike Mach (SR11)	Southern Region Focal Point	(817) 978-1100 x108	✓
Gregory Noonan (CR4)	Central Region Focal Point	(816) 891-7734 x301	✓
Jeffrey Lorens (WR1)	Western Region Focal Point	(801) 524-4000 x265	✓
Jeffrey Osiensky (AR1)	Alaska Region Focal Point	(907) 271-5132	✓
Bill Ward (PR1)	Pacific Region Focal Point	(808) 532-6415	✓
Rick Shanklin (WCM – WFO PAH)	OT&E Site Focal Point	(270) 744-6440 x726	
Tom Evans (WCM – WFO MTR)	OT&E Site Focal Point	(831) 656-1710 x223	
Kathy Hoxsie (WCM – WFO STO)	OT&E Site Focal Point	(916) 979-3046 x223	
Ray Tanabe (WCM – WFO HFO)	OT&E Site Focal Point	(808) 973-5275	
Walter Atherton (EM – Daviess County, KY)	Emergency Manager	(270) 685-8448	
Art Botterell (EM – Contra Costa County, CA)	Emergency Manager	(925) 313-9627	
Tom Simon (EM – Hawaii)	Emergency Manager	(808) 733-4300 x541	

* TRG Chair only votes in the event of a tie vote.

Attachment B – HazCollect OT&E Test Sites

Region	OT&E Site	MIC / POC / EM
Central	WFO Paducah, KY (PAH) 8250 KY Highway 3250 West Paducah, KY 42086-6440 (270) 744-6440	Beverly Poole (MIC) (270)744-6440 x642 beverly.poole@noaa.gov Rick Shanklin (WCM) (270)744-6440 x726 ricky.shanklin@noaa.gov Walter Atherton, Daviess Co. KY EM/ Comms Supervisor 212 St Anne Street Room 3 Owensboro, KY 42301 270.685.8448 Office/EOC 270.929.4257 Cell atherton@daviessky.org
Western	WFO San Francisco Bay Area//Monterey, CA (MTR) 21 Grace Hopper Ave, Stop 5 Monterey, CA 93943-5505 (831)-656-1725	David Reynolds (MIC) (831)656-1710 x222 david.reynolds@noaa.gov Tom Evans (WCM) (831) 656-1710 x223 tom.evans@noaa.gov Art Botterell CWS Manager 50 Glacier Drive Martinez, CA 94553 (925) 646-4461 (Main) (925) 313-9627 (925) 383-6415 (Cell) ABott@so.co.contra-costa.ca.us
	WFO Sacramento CA (STO) 3310 El Camino Avenue Sacramento, CA 95821 (916) 979-3045	Daniel Keeton (MIC) (916) 979-3041 x222 elizabeth.morse@noaa.gov Kathy Hoxsie (WCM) (916) 979-3046 x223 kathryn.hoxsie@noaa.gov
Pacific	WFO Honolulu, HI (HFO) 2525 Correa Rd, Suite 250 Honolulu, HI 96822 (808) 973-5286	James Weyman (MIC) 808-973-5272 james.weyman@noaa.gov Raymond Tanabe (WCM) (808) 973-5275 raymond.tanabe@noaa.gov Tom Simon Hawaii State Civil Defense (Emergency Mgt) (808) 733-4300 x541 (Office) (808) 620-5411 (Cell) tsimon@scd.hawaii.gov

Attachment C – HazCollect Mini-OT&E New Test Trouble Reports

Date	TTR#	Summary	Priority*	Impact**	Status
03/16/09	67	Failover Testing - Ingest Processing for both Rack 1 Routers disconnected failed.	1	1	CLOSED
Description		<p>While performing the failover testing (Test #4), both of the Rack 1 routers were disconnected by CIO and the expected action was for the system to failover to the backup rack at Mt Weather, including the database. The ADR message was expected to be sent through Rack 2 Server 1, via comm client 1 successfully. However, after waiting for almost 30 minutes before sending the test ADR message, OPS24 can only log-in to HazCollect system administrator website, but cannot access any message queue data, nor any system tables. The DMIS client is still showing UNKNOWN server mode. The HazCollect system is down at this point and there is NO workaround. This condition was also verified by Jim Lane and Sean Payne. Additional Information: OT&E testing for router 1 down or router 2 down was successful. When both routers were disconnected, was when the problem happened.</p> <p>UPDATE: 4/3/09 On retest, all routers from Rack 1 were disconnected, and the system properly switched the connections, including the primary database, to the backup rack (Rack 2) at Mt Weather. The switchover took about 5-15 minutes before full operational status was acquired at Rack 2. Test message was successfully sent and confirmed to have been sent through Rack 2. This verifies and successfully confirms the fix for TTR #67. TTR #67 is now CLOSED. Additionally, modified database values were verified to be replicated at the backup rack at Mt Weather. This confirms the database testing test objective.</p>			
03/23/09	68	OT&E National Message issue reported by WFO Paducah	5	6	CLOSED
Description		<p>During the National Message Test, there were CRS/AWIPS configuration issues that were reported. One outstanding issue is the problem reported from WFO Paducah, KY. Deanna Lindstrom (WFO PAH) reported that their ADR state message was sent to their AWIPS okay, but was not sent to CRS nor was it broadcasted. Deanna noted that a NWRWAVES configuration file needed to have a "000" dummy county code for the state message to work. Note that WFO Paducah, KY is currently pointing to NWRWAVES formatter, instead of the CAFE formatter, for HazCollect. They are the only site using the NWRWAVES formatter for HazCollect as part of the test.</p> <p>UPDATE: OPS23 provided NWRWAVES setup instructions per reported problems from the last National Test on March 19. On retest using test state ADR message for the state of Kentucky, March 26, 2009, the ADR message was successfully received at AWIPS, with red banner, scheduled in CRS, and broadcasted to their transmitters with SAME tones. - CLOSED.</p>			

- * Priority 1 - Need immediate fix; suspends the OT&E
- Priority 2 - Include in the next build *before initial deployment*
- Priority 3 - Include in the next build *after deployment*
- Priority 4 - Include in a future build
- Priority 5 - Undetermined

- ** Impact 1 - malfunction of required functionality; no workaround
- Impact 2 - malfunction of required functionality; reasonable workaround for the OT&E only
- Impact 3 - less critical - loss of minimum capability
- Impact 4 - watch item
- Impact 5 - minimum to no impact; nice to have
- Impact 6 – undetermined

Attachment D – HazCollect OPEN Test Trouble Reports

LEGEND:			P=Priority	I=Impact	Ref=Reference	H=HazCollect-related	D=DMIS client related			
Date	Test	TTR	Summary / Description				P	I	Ref	POC
06/05/06	OAT	2	<p>A duplicate line displayed for a WMO formatted message in the queue</p> <p>WMO formatted messages in the message queue contained duplicated line as follow: THE FOLLOWING MESSAGE IS TRANSMITTED AT THE REQUEST OF THE THE FOLLOWING MESSAGE IS TRANSMITTED AT THE REQUEST OF THE NWS TEST WFO PBZ.</p> <p>This function is only available to Sys admin user.</p>				3	5	H	T. Hopkins J. Williams
06/06/06	OAT	7	<p>No restriction in the types of NWEMs that can be issued by an EM.</p> <p>While HazCollect restricts Emergency Managers to a geographic scope for their NWEMs, there is no restriction in the types of NWEMs that can be issued. EMs can issue any of the 17 NWEM message types, even if they are not authorized to do so by State statute or regulation. In many jurisdictions, some NWEM message types are reserved for a state office (e.g. AMBER Alerts).</p> <p>In addition, other NWEM message types may not be applicable for an EMs area (e.g., Nuclear Power plant Warning in areas with no nuclear power plants). All NWEM message types are enabled for NWEM message creation.</p> <p>This TTR documents a recommendation from David Johnson, Allegheny County Emergency Services.</p> <p>6/9/06: Per Art Kraus - reference to EMERGENCY MANAGERS was meant to imply the ORGANIZATION or COG, not the individual Emergency Manager.</p> <p>*** pre-TRG July 12 2006 *** Steve Schofield will need to discuss this TTR with Battelle for fix.</p> <p>*** pre-TRG July 19 2006 *** Steve Schofield & Bernie Schmidt will need to discuss this issue to get a level of effort.</p>				2	5	D	H. White S. Pritchett DHS
06/06/06	OAT	8	<p>An incorrect message was broadcasting on CRS when two ADRs were transmitted at the same time.</p> <p>David (EM) created an ADRPBZ with PCA003. Jae created an ADRPBZ with PAC003-005-007. These messages were sent at the same time.</p>				2	1	H	T. Hopkins J. Williams

LEGEND:			P=Priority	I=Impact	Ref=Reference	H=HazCollect-related	D=DMIS client related			
Date	Test	TTR	Summary / Description				P	I	Ref	POC
			<p>AWIPS received these messages with the same WMO header:</p> <p>First message: WOUS41 KPBZ 061334 ADRPBZ PAC003-005-007-061349-</p> <p>Second message: WOUS41 KPBZ 061334 ADRPBZ PAC003-061349-</p> <p>At the CRS, an incorrect message was broadcasting with an expiration date of 0606071844 (June 7, 18:44). In addition, the content contained wrong info – “ISSUED AT 02:29 PM MONDAY JUNE 05”. See the attached document.</p> <p>We contacted Mary Sue Schultz. She said that the HazCollect should not have sent two messages with the same WMO header. One should have “RRA”. When identical messages are received at AWIPS, the HazCollect function on AWIPS does not work correctly.</p> <p>In summary, two problems 1) The HazCollect should not send two messages with the same WMO header – critical problem. 2) AWIPS OB 7.1 contains a fix for DR 16861 which handles messages with the same WMO header properly.</p> <p>*** pre-TRG July 12 2006 *** NWS IWT agreed with the Priority and Steve Schofield will discuss this TTR with Battelle for fix.</p> <p>*** pre-TRG July 19 2006 *** Need more analysis from NWS (messages through TG and NCF) to be able to make a decision.</p>							
06/06/06	OAT	10	<p>Update and Correction limitations</p> <p>Limitations: 1) Could not update previously corrected message. 2) Could not update previously updated message. 3) Could not correct previously updated message.</p> <p>We were only able to correct and update the original message. David Johnson and Art Kraus would like to have a capability to update and correct the last message.</p>				2	3	D	H. White S. Pritchett DHS

LEGEND:			P=Priority	I=Impact	Ref=Reference	H=HazCollect-related	D=DMIS client related			
Date	Test	TTR	Summary / Description				P	I	Ref	POC
			<p>*** pre-TRG July 12 2006 *** NWS IWT agreed with the Priority and Steve Schofield will discuss this TTR with Battelle for fix.</p> <p>*** pre-TRG July 19 2006 *** Steve Schofield & Bernie Schmidt will need to discuss this issue to get a level of effort.</p>							
06/21/06	OAT	17	<p>HazCollect does not utilize partial county codes</p> <p>In order for Emergency Mgt officials to properly send emergency and warning NWEs, they must be able to send them to smaller portions of counties to avoid over-warning people who are not affected by the event. Partial county codes exist within CRS and should also be utilized by HazCollect. This was stated by WR as an original requirement.</p>				3	3	H	T. Hopkins J. Williams
06/21/06	OAT	20	<p>Spanish output needed beyond San Juan</p> <p>There are at least two Spanish-only NWR transmitters in the CONUS; the Spanish capability planned for SJU should also be included in other areas.</p>				3	1	H	T. Hopkins J. Williams
06/21/06	OAT	21	<p>DMIS Username/password difficulty.</p> <p>DMIS username and password can be difficult to remember in a stressful situation when it hasn't been used in a long time. Suggest pursuing a different method of security for future builds.</p>				3	5	D	H. White S. Pritchett DHS
06/21/06	OAT	22	<p>DMIS password changing difficulty.</p> <p>When changing the user's password, a alarm comes up saying the password "should" be at least 9 characters; it then moves on without telling the user whether the password was accepted or not. Suggest changing the term to "must" and going back to the change window if the attempted password is not valid.</p>				3	3	D	H. White S. Pritchett DHS
06/21/06	OAT	27	<p>HazCollect Interface Issues</p> <p>It is imperative, not just nice to have, that these items be addressed before HazCollect is implemented officially nationwide. Leaving these items as they are WILL result in missed or delayed warnings, mistakes, and reduced user confidence in the HazCollect system.</p> <p>Throughout this document, it must be remembered that the user will be under a great deal of stress during an emergency; we cannot depend on the user to think completely clearly in this situation. HazCollect contains many small details that ultimately determine whether message transmission is</p>				2	2	D	H. White S. Pritchett DHS

LEGEND:			P=Priority	I=Impact	Ref=Reference	H=HazCollect-related	D=DMIS client related			
Date	Test	TTR	Summary / Description				P	I	Ref	POC
			<p>successful. Warning dissemination software must be as clear, concise, and streamlined as possible in order to be successful.</p> <p>The OAT is an Operational Acceptance Test; these items must be addressed for HazCollect to be Operationally successful.</p> <p>*** pre-TRG July 12 2006 *** Jon Adkins will meet with Battelle and Art Kraus to go over the HazCollect interface issues.</p> <p>*** Attached updated version from Craig Schmidt 7/20/06 ***</p> <p>*** Attached updated version from Bernard Schmidt 7/25/06 ***</p>							
06/21/06	OAT	30	<p>Split County Issue.</p> <p>The WFO Sacramento (STO) test COG originated a test ADR message to Alpine County California, which is a county Sacramento shares with WFO Reno (REV). HazCollect generated two ADR messages, an ADRSTO and an ADRREV, with identical content and a UGC coding for Alpine County.</p> <p>In this case, neither WFO broadcasts the other's messages (because of the presence of the Sierra Nevada range). However, in other areas with shared (split) county responsibility there may be cases where one or both WFOs broadcasts both messages - and thus would generate multiple EAS activations on the same transmitter for the same county. An additional concern is that there may be media or other Partners which would relay both messages to the county, either from the multiple NWR activations or from the two unique text products.</p> <p>There may not be an easy or single solution for this problem, since (1) currently there is no way for an EM to specify in UGC which portion(s) of the county are affected by an NWEM hazard, (2) in areas without transmitter overlap you might want multiple messages generated, (3) in other areas with transmitter overlap you might only want one message generated.</p> <p>*** ADDITIONAL INFORMATION per pre-TRG meeting July 7, 2006 ***</p> <p>Need to find out from Battelle what/how the logic is for sending two of the same products within a split county (e.g., Alpine County shared with WFO STO and WFO REV).</p>				5	5	H	T. Hopkins J. Williams
06/21/09	OAT	31	<p>"Dissemination within 10 seconds" requirement did not meet</p> <p>A dissemination took 11.507 seconds instead of 10 seconds. See the log information from the server:</p>				3	3	H	T. Hopkins J. Williams

LEGEND:			P=Priority	I=Impact	Ref=Reference	H=HazCollect-related	D=DMIS client related			
Date	Test	TTR	Summary / Description				P	I	Ref	POC
			<p>Starting the postNWEM process at: 2006-06-21 T13:42:33EDT INFO: Completed the postNWEM process at: 2006-06-21 13:42:45EDT INFO: This message took 11507ms or 11.507sec(s) to create.</p> <p>*** RETESTED AT WFO AFC July 6, 2006 *** Test 220 was retested at WFO AFC on July 6, 2006. The log file indicated: INFO: This message took 12497ms or 12.497sec(s) to create.</p> <p>*** ADDITIONAL INFO per pre-TRG meeting July 7, 2006 *** Assigned to Battelle for additional/further analysis.</p>							
07/06/06	OAT	35	<p>Individual state not selected when all areas are selected from area pick list.</p> <p>While testing the National message in WFO AFC, a previous national message was 'save copied' which has all the areas selected. While removing the selection for Pennsylvania (due to the PA state EAS instructions) for the new national message, we noticed that the state selections in the pick list were 'unchecked' even though the areas under each of the unchecked states, were selected and checked. Pick lists usually have the root member of the pick list also selected if all members, of this root, are all selected.</p>				3	5	D	H. White S. Pritchett DHS
07/24/06	OAT	41	<p>Intermittent problem of the “2 seconds feedback” requirement.</p> <p>Req 198, FRD #28 (HazCollect shall provide the EM with feedback of their action within 2 seconds with continuous updating within 2 seconds until action is completed)</p> <p>Through out the OAT, EMs and the test team have experienced intermittent problems with the “2 seconds feedback” requirement. The following responses took more than 2 seconds to receive feedbacks:</p> <ul style="list-style-type: none"> - Filtered NWEM Alerts list - Open an alert by double clicking on an alert - Areas selection icon - Post icon - Sending Alerts to other COGs 				4	3	D	H. White S. Pritchett DHS
10/31/06	FOD	43	<p>Incorrect HazCollect COG areas</p> <p>During pre-FOAT testing, we logged out of an authorized HazCollect COG that contains only the Guam counties using the DMIS-Services->Logout from the DMIS client menu.</p>				3	2	D	H. White S. Pritchett DHS

LEGEND:			P=Priority	I=Impact	Ref=Reference	H=HazCollect-related	D=DMIS client related			
Date	Test	TTR	Summary / Description				P	I	Ref	POC
			<p>The software properly logged out of the COG and displayed the login screen. We switched to another HazCollect authorized NWS test WFO SJU COG which contains only the counties for Puerto Rico. We were able to log in properly, and the 'New NWEM' button was correctly displayed on the menu toolbar.</p> <p>Upon creating a new NWEM message and bringing up the 'Areas' window, the window tree was still displaying the Guam counties instead of the Puerto Rico counties.</p> <p>We decided to fully exit out of the application and logged back into the client using the test WFO SJU COG. The areas listed now properly displayed the Puerto Rico counties.</p> <p>We repeated the same exit routine (DMIS-Services->Logout) from the menu, and logged back in using another authorized HazCollect COG (NWS Test State Group for the state of Florida). Upon creating a new NWEM again (New NWEM is displayed on the toolbar), the areas list is again erroneously displaying the previous counties for Puerto Rico instead of the counties for Florida.</p> <p>Additional information: We were testing messages being sent to other COGs (known problem) but they were being displayed in COGs where they were not intended to be displayed. When we switched to the NWS test WFO SJU COG using the DMIS-Services->Logout exit routine, we saw two alerts listed in the Alerts list that we did not send specifically to the test WFO SJU COG.</p> <p>*** Update per pre-TRG meeting 11-14-06 *** changed Priority from 5 to 3.</p>							
10/31/06	FOD	44	<p>Bad NWEM message created using COGs with missing required address information.</p> <p>Within the DMIS client v2.3.3 DMIS-Services->Administration->Operator Profile window, the data fields for the city and state fields needs to have actual data values. Otherwise, the resulting HazCollect NWEM message will have the NULL NULL value after the COG name in the WMO MND header. While these fields might not be required in DMIS, they are required for HazCollect for the proper message format in the HazCollect generated WMO message.</p> <p>*** updated per pre-TRG meeting 11-14-06 *** Changed Priority from 5 to 2.</p> <p>Sample of NULL NULL message: WOUS42 KTAE 011606</p>				2	2	D	H. White S. Pritchett DHS

LEGEND:			P=Priority	I=Impact	Ref=Reference	H=HazCollect-related	D=DMIS client related			
Date	Test	TTR	Summary / Description				P	I	Ref	POC
			ADRTAE FLC077-011621- BULLETIN - EAS ACTIVATION REQUESTED ADMINISTRATIVE MESSAGE/FOLLOW UP STATEMENT NWS TEST STATE GROUP NULL NULL RELAYED BY NATIONAL WEATHER SERVICE TALLAHASSEE FL 1106 AM EST WED NOV 1 2006 THIS MESSAGE IS FOR TEST PURPOSES ONLY. THIS IS TEST MESSAGE NUMBER 1. THE FOLLOWING MESSAGE IS TRANSMITTED AT THE REQUEST OF THE NWS TEST STATE GROUP. THIS IS A TEST MESSAGE. THIS IS A TEST OF THE CAPABILITY TO RELAY EMERGENCY MESSAGES FROM NON-NATIONAL WEATHER SERVICE SOURCES USING DEPARTMENT OF HOMELAND SECURITY AND NWS SYSTEMS. THIS TEST MESSAGE IS NOT INTENDED TO ACTIVATE THE EMERGENCY ALERT SYSTEM. THIS IS A TEST MESSAGE. DO NOT TAKE ACTION BASED ON THIS TEST MESSAGE.							
11/01/06	FOD	45	Missing states in the DMIS v2.3.3 COG and Operator Profile state pick list The DMIS client toolkit v2.3.3 COG and Operator Profile state pick lists did NOT include the following 'states': 1. AS - American Samoa 2. GU - Guam 3. VI - Virgin Island 4. PR - Puerto Rico 5. MP - Northern Mariana islands These 'states' are included in the HazCollect list of valid states (see HazCollect state FIPS codes) *** Updated per pre-TRG meeting 11-14-06 *** Changed Priority from 5 to 2. This problem needs to be RETESTED during the FOD using COG upload as a workaround.				2	2	D	H. White S. Pritchett DHS

LEGEND:			P=Priority	I=Impact	Ref=Reference	H=HazCollect-related	D=DMIS client related			
Date	Test	TTR	Summary / Description				P	I	Ref	POC
11/13/06	FOD	47	<p>Non-broadcasted CRS messages using NWEM formatter.</p> <p>On Nov 7, 2006, the FOD test team generated an test ADR message from Tallahassee which was addressed to land counties and marine zones belonging to just Mobile AL and Tallahassee FL (and in the broadcast areas of just those two offices). The test team soon received phone calls from both WFO Peachtree City and WFO Birmingham, who were wondering why CRS messages were generated at their sites. Apparently the CRS messages at these sites were not broadcast, but they not expected by the staffs. (The test team later spoke with someone at WFO Tampa Bay, and apparently the same behavior occurred there.)</p> <p>The test team called Joel Nathan 9OPS23). Joel verified that this was the expected behavior of the CRS NWEM formatter. The NWEM formatter is configured with the AREAS parameter set to ALL, so that if an office broadcasts messages from any portion of a neighboring WFO's CWA, it will process all messages that are sent from that office, even if the area included in the message is not broadcast by the office. Joel explained that if the counties/zones were not in the office's broadcast area (as was the case with Peachtree City and Birmingham today), the CRS message(s) would generate an error and be sent to CRS Weather Message Correction directory.</p> <p>The issue is that this behavior is different from that of the CRS Weather Message formatters (CAFÉ and NWRWAVES), which generally have the AREAS parameter populated with only the neighboring WFO counties/zones that are broadcast by an office. When a WFO is in the middle of an event themselves, these non-broadcast messages could easily cause confusion and perhaps lead an office to try and broadcast an NWEM that it was not supposed to broadcast.</p> <p>It is likely that this behavior was not seen in the June/July OAT because relatively few offices had been configured for HazCollect.</p> <p>A separate issue is why Birmingham and Peachtree City did not call when test messages were sent earlier in the day. The morning messages were sent as state messages from the State of Florida COG (ADRFL) and not as local messages (ADRTAE). The test team is assuming that the state messages were not configured in their systems as neither office broadcasts for any part of Florida. However, the test team would like to verify how the AWIPS NWEM triggers were set up at the offices.</p> <p>*** Updated per pre-TRG meeting 11-14-06 *** Changed Priority of 5 to 4 and setting the Impact to 3.</p> <p>One solution to this problem would be to customize the NWEM formatter and configure the AREAS field per each field office areas of coverage, instead of using the default value of ALL.</p>				4	3	H	T. Hopkins J. Williams

LEGEND:			P=Priority	I=Impact	Ref=Reference	H=HazCollect-related	D=DMIS client related			
Date	Test	TTR	Summary / Description				P	I	Ref	POC
12/05/06	FOD	52	<p>National Msg Test - WFO HFO receiver problems</p> <p>During the FOD National message test on Nov 29, 2006, Bill Ward reported problems from WFO HFO.</p> <p>Early indications show that the message went out well from the WFO HFO AWIPS/CRS system. However, as can be seen from Maureen Ballard's e-mail below....</p> <p>The message did not play on the programmable radios. I am relatively certain this will be the case from all regions that checked this.</p> <p>From Maureen - I had 4 Radio Shack radios waiting for tones this morning. NONE went off for the ADR message. The model numbers are: 12-249 - programmed for 015001, 015003,015007, 015009 12-250 - programmed for 015003 12-254 (handheld SAME model) - programmed for 015003 12-261 - programmed for 015003 (paperwork from box indicates this was manufactured in 2003) They ALL went off for our Routine Weekly Test at 11:25am. The reason most of them are programmed for 015003, is because that is for Honolulu County - if I'm sleeping, or running around town, I only *need* to know about events on this island. We have purchased the 12-261 and 12-249 models for family on the mainland. I know that we always help them program the weather radio for their county (or possibly a couple counties if they are on the border). That's the big selling point of the NWR - you can program your county code in them.</p> <p>Any questions please send them along. As I have stated before, the simplest solution is to use the individual county codes, which are readily available in any number of files within AWIPS at every office.</p> <p>Response from Art Kraus on 12/1/06: -----</p> <p>There are a few things we might try to get a better handle on what the problem is with the older Radio Shack models and the HazCollect National ADRs. Part of it is that we don't know what the exact problem might be. It could be the 000 location code, or it could be the ADR event code. I looked through the owner's manuals for the models that Maureen listed, and I didn't see any mention of ADR or Administrative Messages. So I'm not sure if these radios would react to them or not, even if the ADR carried a "real" FIPS county code. Although most older models will react to unknown event codes, the unknown codes generally have to end with W, A, or S (for warning, watch, or statement). Even some of the newer "Public Alert" receivers won't react to an ADR, such as the First Alert WX-268. Those alarms are "blocked" at the factory, but can always be "unblocked" by the listener.</p>				4	4		Herb White Art Kraus

LEGEND:			P=Priority	I=Impact	Ref=Reference	H=HazCollect-related	D=DMIS client related			
Date	Test	TTR	Summary / Description				P	I	Ref	POC
			<p>There are a few things you could try to narrow things down.</p> <ol style="list-style-type: none"> 1. Since all your radios react to your RWT, could you send an RWT with just the 000 FIPS code to see what happens? I don't know what your RWT policy is, but I know that here in DC, the Sterling office has been known to run multiple RWTs on a given day to ensure that all staff members get their quarterly CRS training. You could run your normal test, and then another with the 000. 2. You could also try entering the 015000 code into one or more of your older model radios before running test (1) above to see if the radio will react to that or not. 3. With appropriate notification, we (or you) could run a a local ADR test for a single Hawaiian county to see what happens your to your radios. <p>We have kept the HazCollect server turned on through the end of December to allow our three EMs to send real NWEMs if they are needed, and for local testing such as this. Although Herb White and I will be at the Storm-Based Workshop in College Station TX from Monday through Thursday next week, we will both have laptops and Internet connectivity so we can discuss this further.</p>							
12/05/06	FOD	53	<p>National Msg Test - WMO message line wrapping.</p> <p>During the FOD National message test on Nov 29, 2006, the FOD test team created a new test ADR message. On the DMIS client, the Description contents were created via copied contents from a Notepad file. The Description contents were copied properly, without any premature linefeeds.</p> <p>As copied directly from the DMIS client toolkit, this is how the Description field displayed the contents:</p> <p>THIS IS A TEST MESSAGE. THIS IS A TEST OF THE CAPABILITY TO RELAY EMERGENCY MESSAGES FROM NON-NATIONAL WEATHER SERVICE SOURCES USING DEPARTMENT OF HOMELAND SECURITY AND NWS SYSTEMS. THIS TEST MESSAGE MAY BE RELAYED BY EMERGENCY ALERT SYSTEM PARTICIPATING STATIONS IN ACCORDANCE WITH LOCAL AND STATE EAS PLANS.</p> <p>THIS IS A TEST MESSAGE. DO NOT TAKE ACTION BASED ON THIS TEST MESSAGE.</p> <p>However, when the message was sent to HazCollect server, the following WMO message had a linefeed between SOURCES and USING and another linefeed between MESSAGE and MAY BE so it was not created as displayed on the DMIS client.</p> <p>SEE EXAMPLE BELOW:</p>				4	5	H	T. Hopkins J. Williams

LEGEND:			P=Priority	I=Impact	Ref=Reference	H=HazCollect-related	D=DMIS client related			
Date	Test	TTR	Summary / Description				P	I	Ref	POC
			<p>WOUS41 KLWX 292010 ADRMD MDC000-292040-</p> <p>BULLETIN - EAS ACTIVATION REQUESTED ADMINISTRATIVE MESSAGE/FOLLOW UP STATEMENT NWS TEST GROUP SILVER SPRING MD RELAYED BY NATIONAL WEATHER SERVICE BALTIMORE MD/WASHINGTON DC 310 PM EST WED NOV 29 2006</p> <p>THIS MESSAGE IS FOR TEST PURPOSES ONLY. THIS IS TEST MESSAGE NUMBER 2.</p> <p>THE FOLLOWING MESSAGE IS TRANSMITTED AT THE REQUEST OF THE NWS TEST GROUP.</p> <p>THIS IS A TEST MESSAGE. THIS IS A TEST OF THE CAPABILITY TO RELAY EMERGENCY MESSAGES FROM NON-NATIONAL WEATHER SERVICE SOURCES USING DEPARTMENT OF HOMELAND SECURITY AND NWS SYSTEMS. THIS TEST MESSAGE MAY BE RELAYED BY EMERGENCY ALERT SYSTEM PARTICIPATING STATIONS IN ACCORDANCE WITH LOCAL AND STATE EAS PLANS.</p> <p>THIS IS A TEST MESSAGE. DO NOT TAKE ACTION BASED ON THIS TEST MESSAGE. \$\$ DM1350179511608366080/22786</p> <p>NOTE: The message was disseminated properly and was broadcast without problems.</p>							
09/19/08	FOTE	55	<p>HazCollect server mode changes are not saved in all servers.</p> <p>During FOTE testing (Tests 5 and 7), when the HazCollect server mode was changed in Rack 1 Server 1, this same data change (server mode) was not automatically changed in all servers. This data would have to be manually updated for all servers in the HazCollect Rack 1 and Rack 2 servers.</p> <p>UPDATE: During the OT&E Wrap-Up meeting 3/31/09, the TRG agreed to the manual workaround of</p>				2	2	H	T. Hopkins J. Williams

LEGEND:			P=Priority	I=Impact	Ref=Reference	H=HazCollect-related	D=DMIS client related			
Date	Test	TTR	Summary / Description				P	I	Ref	POC
			setting all server modes for all servers at one time. The system impact will require the HazCollect system administrator at least 2-5 minutes to manually change all modes. The user impact would be that user messages are not assured of proper dissemination until the server modes have been applied for all servers between 2-5 minutes.							
10/01/08	FOTE	58	<p>CAFE Formatter handling of expired NWEM messages and generation of new and incorrect creation and expiration times</p> <p>On Sept 30, 2008, FOTE test team conducted the state message for Pennsylvania. The WFO Pittsburgh office was experiencing AWIPS problems and alerted the FOTE test team that it might not be able to broadcast the incoming test ADR state message.</p> <p>When test ADR message (ADRPA) was sent at around Sept 30 1:15pm EDT, monitoring field offices for Sterling VA, Cleveland OH, State College PA, Buffalo NY, Mt Holly NJ, and Binghamton NY all reported successful broadcast except for Pittsburgh, PA.</p> <p>After WFO Pittsburgh was able to resolve their AWIPS issues by Oct 1 4:00am, yesterday's 1:15pm EDT test ADR message was still sent through CRS and broadcasted with new and improper creation date and new and improper expiration time even though the original WMO message received in AWIPS had the proper Sept 30 1:15pm creation and proper duration value.</p> <p>The following excerpts are from Joe Palko of WFO Pittsburgh, PA who reported the incident: ***** Jae and Bert, PBZ AWIPS finally came back up on line around 4am this morning after getting new parts in and our database was restored. Anyway all products in queue were received. While of course this AWIPS problem is a rare event, but it brought up an issue with the NWEM CAFE formatter that is a problem. What if there are delays in receiving a product and it results in a WFO not receiving a product till perhaps it has expired, or a product is sent with incorrect UGC codes, the formatter should have caught it and not created a fictitious expiration time in the CRS product of 2 days after the original expiration time.</p> <p>In this case it was a test product and of course clearly labeled as a test so not a problem. But if this would happen with a real emergency, sending out a product saying a serious event is in effect, after it was over would be problematic.</p> <p>Attached are 2 files. One is a tar file of our completed /home/CRS/NWEM directory. The second is a copy of the PHLADRPA that was received at 0806Z that was held in queue from 115pm yesterday.</p>				3	3	H	T. Hopkins J. Williams

LEGEND:			P=Priority	I=Impact	Ref=Reference	H=HazCollect-related	D=DMIS client related			
Date	Test	TTR	Summary / Description				P	I	Ref	POC
			<p>You can clearly see that the product has an expiration time of 301745. But the NWEM CAFE formatter took it and did not decode the UGC line correctly and created formatted ADR product and sent it to CRS. If you look below the ADR expiration time in the NWR product that was sent to NWR has a expiration time set to October 2 at 1745Z (0810021745).</p> <p>aT_ENGPHLADRPA 08100108060810010806 CD PAC000c0810021745</p> <p>*****</p> <p>I have attached the two files described by Joe Palko in the Attachments tab.</p> <p>UPDATE: 10/28/08 A new AWIPS DR # 20592 (Major) has been created for this TTR.</p> <p>UPDATE: 10/29/08 At TRG meeting, the TRG agreed to set the Priority to 3, and the Impact to 3 and assigned to Joel Williams, Steve Pritchett, and Tim Hopkins.</p>							
10/28/08	FOTE	60	<p>CAP v1.1 compliance issues</p> <p>A sample CAP message (10/07/08) generated for WFO MTR using the DMIS client was sent to Art Botterell for review (ATTACHED). Here are CAP v1.1 compliance comments from Art Botterell per 10/20/088 email.</p> <p>1) <geocode>06013</geocode> should be in CAP 1.1; the format should be <geocode><valueName>SAME</valueName><value>006013</value></geocode></p> <p>2) SAME as used in weather Radio and EAS use a six-digit format. Therefore, the HazCollect should use a 6-digit format instead of a 5-digit format.</p> <p>3) The current HazCollect CAP formatted message is (almost) in CAP 1.0 format. Two ways we can tell are: a) The <password> element does not exist in CAP 1.1. b) The <eventCode> value is in the "this=that" form used in CAP 1.0.</p> <p>4) The current CAP formatted message uses CAP 1.0 for Alert tag: <alert xmlns="http://www.incident.com/cap/1.0"> Should be in CAP 1.1 - <alert xmlns="urn:oasis:names:tc:emergency:cap:1.1"></p>				3	3	D	H. White S. Pritchett DHS

LEGEND:			P=Priority	I=Impact	Ref=Reference	H=HazCollect-related	D=DMIS client related			
Date	Test	TTR	Summary / Description				P	I	Ref	POC
			<p>5) The use of a <geocode> alone, without a corresponding geospatial geometry (a circle or polygon) is deprecated in both the CAP 1.0 and 1.1 specs. The reason is that some recipient somewhere might not be familiar with the particular geocoding system used, but latitudes and longitudes are universal. At the minimum a pre-computed default polygon could be inserted that outlines the county designated by the FIPS or SAME code. Eventually, of course, this facility will permit more precise and flexible geotargeting across all CAP-integrated warning systems.</p> <p>6) Additionally, although it isn't a compliance issue, it's not necessary to include all those null elements (the ones that end with a slash, such as <password />). If an element is empty it can be omitted altogether. Including explicit nulls doesn't do any harm, technically, but it does create unnecessary clutter.</p> <p>UPDATE: 10/29/08 The TRG agreed to set the Priority to 3, and the Impact to 3 and assigned to Tim Hopkins, Joel Williams, and Steve Pritchett.</p>							
11/03/08	FOTE	62	<p>HazCollect automatically creates state code (HIC000) for individually selected counties</p> <p>As reported by Tom Simon (HI EM): Using DMIS client software, Tom individually selected all four counties for Hawaii. He confirmed all counties (HIC001, HIC003, HIC007 and HIC009) are selected and listed under AREAS tab of the DMIS client software. He posted this test message successfully. Tom noticed that the WMO message was generated with a state code "HIC000", not "HIC001-HIC003-HIC007-HIC009". He thought the message would individually include the counties as it was listed on the DMIS client software. The FOTE test team checked the HazCollect server and noticed that the CAP formatted message was generated with four individual counties.</p> <p>Since some of the older weather radios do not recognize or properly decode the "000" state code, Tom would like to have choices for generating messages with individual counties or a state code.</p>				3	3	H	T. Hopkins J. Williams
11/07/08	FOTE	64	<p>Missing marine zone message during Florida State Message test</p> <p>The FOTE Florida State message test was performed last November 6, 2008.</p> <p>Monitoring WFOs at Tallahassee, Melbourne, Miami, Key West, Jacksonville, Tampa, and at Mobile, AL (they also get broadcast feed from Pensacola transmitters) were present for verification.</p> <p>John Fleming (Florida DCA/DEM) successfully generated and posted a test FL state ADR message, which included all Florida Marine zones.</p>				3	2	H	T. Hopkins J. Williams

LEGEND:			P=Priority	I=Impact	Ref=Reference	H=HazCollect-related	D=DMIS client related			
Date	Test	TTR	Summary / Description				P	I	Ref	POC
			<p>All monitoring WFOs successfully reported two ADR messages (one for the ADRFL land state message) and the other for the separate marine zone message broadcasted on NOAA weather radio.</p> <p>Upon review by Art Kraus (OS51), he noticed that the WFO Miami (MFL) field office should have also broadcasted the GMZ656-657-676 marine zone message, but this was never received at either the NWS verification email, or at the HazCollect server marine zone message off the CAP message. The only marine zone that went out was the AMZ450-452-470-472-474. Upon further inspection of the CAP message sent by John Fleming, the GMZ656-657-676 geocodes were all included.</p> <p>ADDITIONAL TESTING: On November 6, 2008, to further validate the missing marine zones, OPS24 proceeded to generate an DMIS Active/Test message which has areas set for both GMZ656 and AMZ650. Upon dissemination only to the HazCollect server, only 1 message for marine zone AMZ650 was generated. There was not a separate GMZ656 marine zone message.</p> <p>OPS24 again generated a DMIS Active/Test message which has areas set only for GMZ656 marine zone. This time, it properly generated only 1 message for GMZ656.</p> <p>=====</p> <p>WMO message TEXT FOR MFL AMZ450-452-470-472-474</p> <p>000 WOUS42 KMFL 061508 ADRMFL AMZ610-630-650-651-670-671-061538-</p> <p>BULLETIN - EAS ACTIVATION REQUESTED ADMINISTRATIVE MESSAGE/FOLLOW UP STATEMENT FL DIVISION OF EMERGENCY MANAGEMENT TALLAHASSEE FL RELAYED BY NATIONAL WEATHER SERVICE MIAMI FL 1008 AM EST THU NOV 06 2008</p> <p>THIS MESSAGE IS FOR TEST PURPOSES ONLY.</p> <p>THE FOLLOWING MESSAGE IS TRANSMITTED AT THE REQUEST OF THE FL DIVISION OF EMERGENCY MANAGEMENT.</p>							

LEGEND:			P=Priority	I=Impact	Ref=Reference	H=HazCollect-related	D=DMIS client related			
Date	Test	TTR	Summary / Description				P	I	Ref	POC
			<p>THIS IS A TEST MESSAGE. THIS IS A TEST OF THE CAPABILITY TO RELAY THE EMERGENCY MESSAGES FROM NON-NATIONAL WEATHER SERVICE SOURCES USING DEPARTMENT OF HOMELAND SECURITY AND NATIONAL WEATHER SERVICE SYSTEMS. THIS TEST MESSAGE MAY BE RELAYED BY EMERGENCY ALERT SYSTEMS PARTICIPATING STATIONS IN ACCORDANCE WITH LOCAL AND STATE EMERGENCY ALERT SYSTEMS PLANS.</p> <p>THIS IS A TEST MESSAGE. DO NOT TAKE ACTION BASED ON THIS TEST MESSAGE. \$\$ DM4237558389431383040/2253587949768957952 =====</p>							
12/01/08	FOTE	66	<p>FOTE National Message Test issues with WFO Guam</p> <p>After the FOTE National Message Test held last 11/18/08, WFO Guam reported that their GUMADRGUM message had an 'incorrect' UGC code of GUC085 and that it was not broadcasted. Nancy Helderma (OPS23) reported that the non-broadcast was due to the message type only being scheduled on the Exclusive Suite and not being set as a trigger. This non-broadcast finding is also true for the GUMADRGU message.</p> <p>Herb White however also responded, per his email (dated 11/19/08) "...The UGC of GUC085-MPC100-110-120- (read in as LACs) in the GUMADRGUM is obtained from the Public Forecast Zone-County Correlation file which is sourced from the AWIPS County and Public Zones shapefiles. There are numerous lines in the Z-C file with 085 county code that is correct FIPS code for the Northern Islands of the Northern Mariana Islands. We know from recent conference calls with Bill Ward that he is working with your office (Guam) to make corrections to the shapefiles and public zone ids that may be the source of the incorrect GUC085 code. We will also look further at the GUC085 issue..."</p> <p>NOTE: The results from the FOTE National Message Test are added as a separate attachment.</p> <p>UPDATE @ TRG meeting (12/3/08): Will wait for an update from Herb White before assigning Priority and Impact.</p> <p>UPDATE 12/9/08: Priority set to 2, Impact to 2.</p>				2	2	H	Herb White Art Kraus Bill Ward

Attachment E – HazCollect National Message Test Results – March 19, 2009

EASTERN REGION		ISSUES/RESOLUTIONS																		
ALY	Albany	<p>Raymond O'Keefe reported that they did not receive the AWIPS Red Banner but the ADR message was disseminated with no problems.</p> <p>RESOLUTION: Mike Moss (OPS21) believes that this is a site configuration issue which was evident in their NMTW testing from a few weeks ago. Jim Lane has concurred with the site configuration assessment.</p>																		
GSP	Greenville-Spartanburg SC	<p>Blair Holloway reported that: "...The only problem we had with the HazCollect test here at GSP is that RDUADRNC did not play on our Mooresville, NC NWR transmitter. I am not sure why this happened as the RDUADRNC product is in both the "General MVL" and "MVL Severe Weather" broadcast suites..."</p> <p>RESOLUTION: Mike Moss responded that he checked their CRS database from March 7th and did not see that RDUADRNC is scheduled on any of the MVL suites. He ran the command <code>/home/ncfuser/HazColCRS.ksh detail</code> and you can see the output in <code>/home/ncfuser/HazColCRS.TXT</code>.</p> <p>Warrick Moran (OPS23) found out two problems:</p> <ol style="list-style-type: none"> The All County Area Code (NCC000) does not contain a reference to the Mooresville, NC (MVL) transmitter <pre>> NCC000 "NC" GVL AVL CLT NAN RAB LIN ROC</pre> The RDUADRNC Message Type SAME indicator contains a NULL list of transmitters <pre>#----- RDUADRNC -----</pre> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">#MsgType</th> <th style="text-align: left;">Title</th> <th style="text-align: left;">LAC-Override</th> <th style="text-align: left;">Desig</th> <th style="text-align: left;">Usage</th> <th style="text-align: left;">Language</th> </tr> </thead> <tbody> <tr> <td>VIPVoiceType</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>>RDUADRNC</td> <td>"ADMIN"</td> <td style="text-align: center;">0</td> <td style="text-align: center;">8</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </tbody> </table> <pre>#indicator Transmitter-Mnemonics-List SAME NULL</pre> <p>Terry Benthall from GSP has acknowledged the error and made corrections.</p>	#MsgType	Title	LAC-Override	Desig	Usage	Language	VIPVoiceType						>RDUADRNC	"ADMIN"	0	8	0	0
#MsgType	Title	LAC-Override	Desig	Usage	Language															
VIPVoiceType																				
>RDUADRNC	"ADMIN"	0	8	0	0															
RLX	Charleston WV	<p>Jeffrey Hovis reported that they received 5 ADR messages: CRWADRWW SDFADRKY WBCADRVA CLEADROH PHLADRPA and did not understand why they received one from PA.</p> <p>RESOLUTION: Joseph Palko (WFO PBZ) responded to Jeffrey that "...it's likely that you have triggers set for PHLADRPA in AWIPS. During installation of HazCollect, the baseline triggers are generated based on configuration files in AWIPS. While the product PHLADRPA may have been generated for your NWR, it would not broadcast on any transmitter unless you have a PA counties configured for a transmitter..."</p>																		

SOUTHERN REGION		ISSUES/RESOLUTIONS
HGX	Houston/Galveston	<p>Brian Kyle reported that "...The red banner showed up and the product arrived...but it did NOT go to NWR automatically. It just sat in the browser...."</p> <p>RESOLUTION: OPS23 discovered that the "SEND TO CRS" in their config.nwem is set to "N". This option should be set to "Y" when NWEM delivered.</p> <p>This is the current setup in their config.nwem and this file was last modified on February 7, 2008.</p> <p>GEN EXPIRATION= Y AREAS= ALL INTRO= HEADLINE= Y ISSUE TIME= N CRSID= ACTIVE= C SEND TO CRS= N GENEND</p>
CENTRAL REGION		ISSUES/RESOLUTIONS
PAH	Paducah KY	<p>Deanna Lindstrom reported that their ADR state message was sent to their AWIPS okay, but was not sent to CRS nor was it broadcasted. Deanna noted that a NWRWAVES configuration file needed to have a "000" dummy county code for the state message to work.</p> <p>Note that WFO Paducah, KY is currently pointing to NWRWAVES formatter for HazCollect. They are the only site using NWRWAVES for HazCollect.</p> <p>RESOLUTION: NWRWAVES setup instructions were provided by OPS23 to WFO Paducah KY. A state message retest for Kentucky was successfully conducted on March 26, and all WFO PAH messages were properly disseminated using the NWRWAVES formatter.</p>
WESTERN REGION		ISSUES/RESOLUTIONS
FGZ	Flagstaff AZ	<p>George Howard reported that ADRAZ was broadcasted smoothly, but they did not receive the ADRNM which they were expecting to receive and transmit over their Window Rock/Piney Hill (WWF99) transmitter into portions of Northwestern New Mexico.</p> <p>RESOLUTION: Mike Moss responded that "...AWIPS triggers are only set up for the products PHXADRFZ and PHXADRAZ. It looks like you're saying that you should also trigger on ABQADRNM. Are there any other products missing from the trigger table; e.g., PHXADRPSR?"</p> <p>Sung Vo (OPS23) further replied that: The problem at FGZ is due to PHXADRNW not included in their trigger file.</p> <p>The /awips/fxa/postgres/fxatextTriggerActions.txt file has only 2 ADRs as shown below:</p> <p>PHXADRFZ /awips/fxa/bin/startTransmitHazWarnings.csh GEN PHXADRAZ /awips/fxa/bin/startTransmitHazWarnings.csh GEN</p>