

“CL31 Replacement with ASOS ACU V2.79X, DCP V2.0 EPROM, and IFW Sensor Firmware V4.54” OT&E Test Review Group Status Meeting

August 13, 2009

ATTENDEES:

NWS:

OT&E Site Electronics System Analyst (ESA)/ Electronic Technician (ET):

WFO Caribou, ME
WFO Blacksburg, VA
WFO Gaylord, MI
WFO Jackson, KY
WFO Midland, TX
WFO Norman, OK
WFO Phoenix, AZ
WFO Spokane, WA
WFO Fairbanks, AK
WFO Hilo, HI

NWS Regional Headquarters:

Don Bolton, ARH
Jim Jones, ARH
John Bush PRH
Lew Harrington, SRH RMS
Dan Lester, CRH RMS
Tom Townsend CRH (ABSENT)
Duane Wilkinson CRH ASOS Focal Point
Matt Ferrell, ERH RMS (ABSENT)
Kevin Murray, ERH
Tim Rutkowski, ERH (ABSENT)
Son Nguyen, WRH

National Weather Service Headquarters:

John Monte – W/OST11
Joel Williams W/OST/11
Joyce Dickerson – W/OST11 (ABSENT)
Greg Dalyai – W/OPS12 (ABSENT)
Joseph Devost – W/OPS12 (ABSENT)
Mickey Renegar – W/OPS12 (ABSENT)
David Mannarano – W/OPS22
Richard Parry - W/OPS22
Chet Schmitt – W/OPS22
Peggy Hoch – W/OPS23
Hak Kim – W/OPS23
Kevin Conaty – AOMC

Tony Weiss -AOMC
Beth McNulty – W/OS23 (ABSENT)
Laura Cook – W/OS7
Fred Hauschildt – W/OPS14 (ABSENT)
Jennifer Dover – W/OPS22 (ABSENT)
Brian Rice – SAIC SFSC (ABSENT)
Barbara Childs – SAIC SFSC (ABSENT)
Khien Nguyen – W/OPS24
Harry Tran – W/OPS24
Joseph Fiore – W/OPS24 (OT&E Test Director)
Jerald Dinges – W/OPS24 (Moderator)

National Weather Service Training Center

Bob Retzlaff - Kansas City, MO (ABSENT)

National Reconditioning Center (NRC)

Mark Russo – Kansas City, MO

NWS Employees Organization (NWSEO) Representative:

Chris Kornkven –WFO Milwaukee, WI

FAA:

Bing Huang, ATO- T
Jerry Kranz, (contractor)

DOD - U.S. Navy:

Gerald “Wayne” Knight - Space and Naval Warfare System Center
(SPAWARSYSCEN), Charleston, SC

Ronald Heatherdale – Space and Naval Warfare System Center (SPAWARSYSCEN),
Charleston, SC

DOD - U.S. Air Force:

William (Mac) Lawrence (ABSENT)
Ricky Keil (ABSENT)

The twenty-third CL31 ceilometer replacement Operational Test and Evaluation (OT&E) Test Review Group (TRG) status meeting was held by audio conference call on Thursday, August 13, 2009. Jerry Dinges, moderator, convened the meeting with a “roll call” (See above list of attendees).

After roll call, Jerry asked the TRG if there were any changes to the minutes from the August 6th TRG meeting. There were no changes to the minutes. The minutes from the August 6th TRG meeting were ratified, and will be posted on the W/OPS24 website:

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

Jerry followed an agenda that he had developed for the meeting. The first topic discussed was Walt Jameson's "Lessons Learned" suggestion the AOMC not clear fail counts and \$ for OT&E sites during OT&E; have ET's clear their own fail counts and \$ during OT&E; and, have the ET's at the OT&E sites analyze the SYSLOGS daily instead of SFSC). This topic generated a lot of discussion on the subject. Kevin Conaty (AOMC) asked Walt Jameson what he thought would be gained by not having the AOMC clear fail counts and \$ during OT&E. Walt stated if the \$ was not cleared by AOMC, the ET could "dig down into the ASOS maintenance pages to find the place where the fail counts were located. Kevin stated the AOMC is required to clear 30% of "priority 3" ASOS SYSLOG errors or trouble tickets daily, and the AOMC did not want to alter this procedure at OT&E sites. Kevin and others stated the problem of unexplained \$ was not new to V2.79V/X and was present all the way back to V2.60. Hak Kim (OPS23) interjected the IFW status "H" will generate a \$ with no indication in the SYSLOG that there was a heater failure, and that there was no way for an ET to know that the IFW had failed. There is also a known deficiency (OTR 1090) on a hidden "N" that causes an unexpected \$ to be generated in the SYSLOG. Jerry Dinges stated that the strategy for this OT&E was specifically to have AOMC clear fail counts and \$ from the OT&E sites, and have the SFSC perform a SYSLOG analysis at OT&E sites during OT&E. Duane Wilkinson (NWS CR) stated they did not want to make the same mistake for CL31 sensor that was made with the IFW sensor. Joe Lachez (NWS WR) suggested to the TRG this issue be added to the next EPM conference call agenda as a topic of discussion.

Next, John Monte provided an update of the weekly SYSLOG analysis at the CL31 OT&E sites provided by John Monte (W/OST11). **John reported overall, most sites continue to exhibit no SYSLOG issues since installing V2.79V and now V2.79X.** John reported that one site had a "window condition" failure. Walt Jameson asked John Monte if heavy rain would cause a "window condition" warning, and John stated that heavy rain could cause a "window condition" warning to be generated. There were two ACU warm boots and 1 DCP reset, which are not unusual on ASOS, and has occurred in firmware loads prior to V2.79V/X. John said GDP experienced "modem loopback" errors again, but GDP has bad telephone lines and has had the phone lines knocked out by storms earlier in the month. John also reported SIO card errors had significantly dropped off this week, and that the problem seems to be random.

Joe Fiore reported Dodge City, KS had re-configured their freezing rain (FZRA) sensor, and that only GDP needed to re-configure their FZRA sensor and all sites with a FZRA sensor would be re-configured. WFO GDP reported they re-configured their FZRA sensor on August 12. **All OT&E sites with a FZRA sensor are re-configured and turned on.**

The next topic discussed was on the bird abatement study being performed at SFSC. **John Monte reported he would provide the final report as an attachment to these TRG meeting minutes.** John said results of the study indicate the horizontal rods will not need to be used for bird abatement. John said a statement could be put into the CL31 installation Mod Note saying the ET does not need to install the horizontal rods on the CL31 when they put the wire mesh bird abatement device on the CL31.

The next topic was on the bird intrusion into the bottom of the CL31. John asked the TRG if they would like to see “plumbers putty” added to the opening in the bottom of the CL31 to prevent birds or other small creatures from getting into the CL31 rather than using a wire mesh. The TRG said this was a good idea, and could be an option for ET’s when they install the CL31. A note about this will be added into Mod Note 92. Bing Huang (FAA) said there were no reported issues of bird intrusion into the bottom of ceilometers on their AWOS’s. Jerry Kranz (FAA) said some of the AWOS sites that have CL31’s reported that rodents bit through the cables running up the outside of the CL31. Jerry Kranz will send John Monte a picture of these cables to see if the cables for the CL31’s on the ASOS are similar to those on the AWOS. John Monte asked Jerry Kranz to find out approximately how many AWOS sites experienced this problem.

Ron Heatherdale (Navy) said that the DB-9 connector on their CL31 was received not tightened down enough, and this could cause intermittent sensor response issues. John Monte agreed to let Vaisala know about this potential problem.

Next the issue of birds causing “false clouds” at OKC was discussed. OKC reported there not been any false reports since (except a brief period of “false hits” from the CL31 at OKC on August 7th). John Monte agreed to look at the raw CL31 data from the primary and back up CL31 at OKC from August 6-8, 2009 to perform further analysis on this “false cloud” issue from bird either jumping back and forth over the CL31 window or looking into the CL31 window. Dan Lester (NWS CR) and Kevin Murray (NWS ER) suggested that a motion sensitive camera be sent to OKC for them to mount near their CL31 to see if they could get visual evidence of the bird activity on the CL31. Jeff Engel (ESA OKC) agreed that this was a good idea. Dan Lester agreed to send a motion sensitive camera to OKC for them to install on their ASOS near the CL31 to see if they could get visual confirmation of bird activity around the CL31. However, the consensus among TRG members was that this issue of bird creating “false clouds” would not stop the deployment of the CL31. Ron Heatherdale (Navy) said that the Navy has had some luck using the “whirly-bird” bird deterrent device to help scare birds away from the ASOS and CL31’s. Ron agreed to send OKC (Jeff Engel) a “whirly-bird” bird deterrent device to install near the CL31 at OKC.

The next topic discussed was the SIO card error issue at Spokane, WA (GEG). GEG and Portland, OR (HIO) continued to work on the SIO card errors that were seen at GEG. The CL31 from GFA (Malmstrom AFB) was installed at GEG on 8/11/09, and there have been no SIO card errors or CL31 sensor response timeouts since then. Also, when the CT-12K sensor was installed at GEG (while they were waiting for the GFA CL31), there were no SIO card errors. However, there were a few CT-12K sensor response timeouts during that time. The SIO card errors (and CL31 sensor response timeouts) will continue to be monitored at GEG for the next week.

Portland, OR (HIO) still has GEG’s original CL31 (the one that GEG had trouble with) on their ASOS. HIO has not had any problems with the GEG CL31. HIO will take the original CL31 that they received from GEG off their ASOS, and ship it back to GEG. The

CL31 that is received at GEG will be kept at GEG as a test sensor to help solve GEG's problems if needed. HIO will re-install their original CL31 on their ASOS.

John Monte reported the "band pass" filter for the FAA SAWS system at GEG needs to be re-tuned (after talking with Jerry Kranz of the FAA). Once this "band pass" filter is re-tuned, it will be held at WSH. **If the SIO card errors or CL31 sensor response timeout errors increase significantly at GEG, the "band pass" filter will be shipped to the FAA technician at GEG and it will be installed on the SAWS system at GEG.** Steve Butler (ET Hilo, HI) said that he has never had a problem with interference from the SAWS system at ITO. ITO and GEG are the only two OT&E sites with the SAWS system located near the ASOS. Dwight Williams (ESA Spokane, WA) asked the TRG if examining the "TREND" page during OT&E for the other OT&E sites would help GEG solve their SIO errors. John Monte thought that was a very good suggestion, and he agreed to have SFSC examine the TREND page for the 21 OT&E sites during OT&E. John (and others) believes that the problems at GEG are site specific, and have nothing to do with the installation of the CL31.

As a result of further discussion on the SIO card error problem there were two more Action Items assigned. John Monte asked if GEG sensors were configured differently on the SIO cards than the other OT&E sites. A new Action Item was assigned to W/OPS12. W/OPS12 will determine what the standard configuration for the sensors on the ASOS SIO cards should be. W/OPS12 will work with NRC (Mark Russo) to determine this standard sensor configuration on the SIO cards. The ET's may be asked to make sure that their ASOS has this standard configuration before the CL31 is installed during national deployment. Another Action Item to help analyze the SIO card errors was assigned to AOMC. Kevin Conaty will perform an ASOS trouble ticket analysis on the 21 OT&E sites before OT&E and compare the results to an ASOS trouble ticket analysis for the 21 OT&E sites during OT&E. W/OPS24 and SFSC will perform an analysis of SYSLOG error messages (sensor response timeouts and SIO card errors) before OT&E and during OT&E. Two questions were made by Dan Lester to the TRG from the SIO card/sensor transmission error discussion:

- 1) Can we determine the trend of the problems before the OT&E versus during the OT&E?
- 2) Have these problems increased the workload of the AOMC or the ETs during the OT&E?

The answers to these two questions will help decide if the SIO/sensor response time out errors are significant enough to prevent national deployment of the CL31.

Jerry then queried the regions whether they believe the SIO card errors and the "false clouds" reports from the CL31 at OKC have the potential to stop the CL31 national deployment. The 5 of 6 regions (CRH, WRH, PRH, ARH) responded as follows:

	<u>SIO Card Errors</u>	<u>“false clouds” from birds at OKC</u>
Eastern	N/A.	N/A.
Southern	Yes	No
Central	Yes	No
Western	Yes	No
Alaska	Yes	No
Pacific	No	No

All these discussions took over two hours, and the rest of the TRG meeting was not held because of time constraints. These topics will be discussed at next week’s TRG meeting. Jerry concluded the meeting by saying that for next week’s meeting the analyses being performed by various groups would be discussed, and a ‘wrap up’ would be conducted on this OT&E.

Jerry stated the OT&E would conclude at the August 20th TRG meeting. Two votes will be taken at next week’s TRG meeting: 1) vote whether to move forward with ACU V2.79X/DCP V2.0 EPROM with the CL31 national deployment; and, 2) vote whether to move forward with the IFW V4.54 firmware load national deployment.

W/OPS24 will continue to gather several pieces of information needed for the completion of OT&E including:

- 1) Completing the SYSLOG analysis from the ‘baseline’ SYSLOG analysis before V2.79V OT&E;
- 2) Collecting the TTRs, OTR, and RC documented during the OT&E for adjudication;
- 3) Collecting the OT&E questionnaire from the 21 OT&E sites;
- 4) Collecting the comments on Mod Note 80 and Mod Note 92 from the OT&E sites;
- 5) Writing a “lessons learned” document from the OT&E; and,
- 6) Ensuring the OT&E test objectives (sent out my email to the TRG on 7/1/09) are met.
- 7) Gathering results of various Action Items for analysis of SIO card errors together.

The following is the accounting for each action items from the previous TRG meetings:

- a. Action Items 8 (03/09/09), 17 (3/19/09), 35 (4/16/09), 43 (5/7/09), 79 (6/11/09), 84 (6/18/09), 85 (6/18/09), and 93 (7/1/09) will remain OPEN (No change until Phase II OT&E). **NO CHANGE**
- b. Action Items 114 (7/30/09) and 117 (7/30/09) were **CLOSED**.
- c. Action Items 63 (5/21/09), 103 (7/9/09), 104 (7/9/09), 109 (7/23/09), 110 (7/23/09), and 119 (7/30/09) remain **OPEN**.

The specifics for each action item follow:

Related to CL31 OT&E:

Action Item 8 (03/09/09) - OPEN: WSH will download the SYSLOG error messages (1015, 1515, and 1537) from all 22 OT&E sites daily and will analyze the data to determine how many random sensor time out SYSLOG error messages are generated with a \$. SAIC contract personnel at Sterling Field Support Center, Sterling VA will perform the work. Jennifer Dover (W/OPS22) will report the statistics to the OT&E TRG at the weekly meetings during the OT&E. In preparation for this activity OPS24 personnel will analyze the same SYSLOG error messages for each 15 OT&E site (22 minus the 7 Meteorological Comparison Evaluation Beta sites) for 30 days PRIOR to the OT&E. This analysis will “baseline” the number of random sensor time out errors occurrences before V2.79 V is installed.

STATUS: This action will remain open until the completion of the V2.79X OT&E (currently planned for mid-August). An NWS “tiger team” has been formed to perform detailed analysis on this SIO card error problem. The “tiger team” was originally lead by W/OPS12 and NRC, with participation by W/OPS22, W/OPS23, W/OPS24, and W/OST11. The “tiger team” responsibilities have been shifted to W/OST11 and W/OPS23. The SIO card errors are now isolated to GEG. W/OST11 and W/OPS23 are working with GEG to solve these problems. The “tiger team” will determine if the SIO card errors are serious enough to stop the deployment of the CL31 ceilometers and suspend OT&E until the problem is fixed.

Action Item 17 (03/19/09) – OPEN: Re-Assigned to W/OPS22 and W/OS7. W/OPS22 will coordinate the policy and procedure for disposal of the old CT12K sensors after deployment of the CL31 sensors. The disposition of the remainder of the CT12Ks will be in accordance with procedures defined by OPS12.

STATUS: Dave Mannarano reported that W/OPS22 would talk in detail about plans for disposal of the old CT-12K ceilometers during Deployment Readiness Review Meetings which will be piggy backed onto the CL31 TRG meeting beginning in late June when OT&E is nearing completion. Dave stated that the initial plan is to have approximately 300 CT-12K ceilometers shipped to NRC after the CL31 ceilometers are deployed and installed. Dave said that there was no resolution yet on who would pay for the shipping and local disposal of the remaining CT-12K ceilometers after deployment of the CL31 ceilometers. **This Action Item will remain open until OT&E is complete and until the**

CL31 Deployment Readiness meetings are conducted “piggy backed” to the end of the CL31 TRG meetings in mid July.

Action Item 35 (4/16/09) - OPEN: Assigned to OPS12 and OPS24. Greg Dalyai and Jerry Dinges will track “Lessons Learned” to ensure the problems encountered and solutions found are published, as appropriate (i.e., test report, final Mod notes, Tech tips, etc.) to minimize repeated problems occurring during the installations of CL31 for general deployment.

STATUS: This action item will remain OPEN until the OT&E Final Report is generated. A summary of lessons learned will be developed before the final report is generated.

Action Item 43 (5/7/09) OPEN: Assigned to W/OPS12. Joe Devost and Greg Dalyai will coordinate with the field on plans to discuss options for a possible national policy on the issue of the new solar winds program download problems on ET’s laptops, and possible issues with local WFO access rights with the laptops and the LAN.

STATUS: W/OPS12 will continue to investigate options for downloading the solar winds programs to the ET’s laptop with WSH, the NWS regions, and the individual WFO’s. This action item will remain OPEN until the conclusion of OT&E. W/OPS12 will contact National Weather Service Headquarters’ IT to help resolve this issue. A recommendation was made by the TRG to have W/OPS12 contact the ASOS security officer about national policy on this issue.

Action Item 79 (6/11/09) OPEN: Assigned to OPS24. Jerald Dinges will ensure a recommendation in the OT&E test report state, the Maintenance Branch (W/OPS12) establish a “tech tip” documenting a recommended port assignment scheme for sensors contacted through the SIO card on ASOS. New Action: Jerry will coordinate and lead a meeting between W/OPS24, W/OPS23, W/OPS22, W/OPS12, and W/OST11 to discuss this topic next week

STATUS: The SIO card errors and prioritization of SIO ports was discussed at a separate meeting between NWS Headquarters (WSH) W/OPS24, W/OPS23, W/OPS22, W/OPS12, and W/OST11. The meeting took place at WSH on July 15th, and minutes from that meeting will be attached to the July 16th TRG minutes. OPS12 was assigned the action with NRC to determine the problem sites’ configuration before and after the CL31 was installed and to determine if prioritizing port assignment of sensor on the SIO card will decrease the occurrence of ASOS SYSLOG error problems.

UPDATE: This Action Item was discussed in depth at the TRG meeting on August 13, and OPS12 and NRC will complete this standardization of port assignment for the August 20 TRG meeting.

This action item will remain open until the OT&E test report is complete.

Action Item 84 (6/18/09) OPEN: Assigned to regional focal points and OT&E sites. The regional focal points and field sites (sites with temporary mounts) that ordered and received additional SIO, A/D cards, power control modules, and Fiber Optic Modems for OT&E need to remove them from their respective DCPs at the conclusion of the OT&E and return them for credit to clear the due-in.

STATUS: This action will remain open until all Regions report their OT&E sites have turned in the parts back to NLSC for the temporary mounts for credit on “due ins.” Joe Fiore will help focal points track all actions are completed to ensure the proper disposal of the temporary mounts at each affected sites.

Action Item 85(6/18/09) OPEN: Assigned to OPS24 and OPS12. Joe Fiore will work with Joe DeVost to collect all comments received from the OT&E ETs on both NWS Engineering Modification Note #80 and #92 and send them to all the ASOS OT&E ESAs and ETs so they can see what comments have been noted during the OT&E during the installation phase of the new Vaisala CL31 and the associated ASOS ACU firmware and DCP EPROMs.

STATUS: This action will remain open until the regions confirm we received all comments on the draft mod notes from the OT&E sites.

Action Item 93 (7/1/09) OPEN: Assigned to W/OPS24 and W/OST11 a comparison of the “baseline” SYSLOGs and the SYSLOGs after the CL31 became the stand-alone ceilometer will be performed by W/OPS24 and W/OST11.

UPDATE: Joe Fiore sent a spreadsheet summarizing the SYSLOG analysis for the ASOS “baseline” firmware prior to OT&E out to the TRG on July 7. Final comparison between the “baseline” SYSLOG analysis and the SYSLOG analysis for V2.79V/V2.79X after the CL31 was the stand-alone sensor (CT-12K deconfigured) will be completed before the end of the OT&E.

STATUS: This action will remain “OPEN” until the end of the OT&E.

Action Item 109 (7/23/09) OPEN: Assigned to WFO Midland, TX and WFO Spokane WA and their respective NWS southern and western regional headquarters ASOS focal points. The WFO Midland agreed to ask WFO Amarillo, TX if they were willing to switch the Guymon, OK (GUY) CL31 sensor for the GDP CL31 sensor. During the meeting, the WFO in Midland (GDP) contacted the WFO in Amarillo (GUY), and they agreed to meet in Amarillo to swap the CL31 sensors next Tuesday, July 28th. WFO Midland will include Lew Harrington (SR Focal Point) in any correspondence on the status of this switch. The WFO in Spokane, WA (GEG) agreed to ask the WFO in Portland, OR (HIO) to see if they could swap the CL31’s. Son Nguyen (WR Focal Point) and Joe Lachacz (WR) are coordinating the swap of the CL31’s between GEG and HIO with the ESA’s at GEG and HIO. The swap of the CL31 between GEG and HIO should occur next week.

STATUS: To complete this Action Item HIO will re-install their original CL31 and send the CL31 back to GEG for test purposes if needed.

Action Item 114 (7/30/09) CLOSED: Assigned to OST11. John Monte and Joel Williams will work with WFO Aberdeen to determine if the CL31 at ABR is faulty. After WFO Aberdeen sends the engine board LRU to NRC, Joel will ensure the LRU is sent to Vaisala for diagnostic work and report the results to the TRG. **COMPLETE**

STATUS: The CL31 ABR is running without problems since they installed a new engine board on the CL31.

Action Item 117 (7/30/09) CLOSED: Assigned to Mac Lawrence (USAF) and Bing Huang (FAA). John Monte asked the U.S. Air Force and FAA to query their sites to see if bid intrusion into the ceilometers at the Air Force and FAA non-ASOS sites is a problem. **COMPLETE**

STATUS: Bing Huang reported that the FAA sites (AWOS) had not experienced any bird intrusions into their ceilometers.

Action Item 119 (7/30/09) OPEN: Assigned to John Monte (W/OST11) and Hak Kim (W/OPS23). GEG is the now the only site that continues to have chronic SIO card problems. John Monte and Hak Kim will concentrate their efforts and work with GEG next week to help resolve their SIO card errors.

STATUS: John Monte agreed to have GEG install a band pass filter on their ASOS to filter out this interference. John will also make sure that the appropriate FAA contacts at GEG are contacted about the SAWS interference. John Monte and Hak Kim will continue to assist GEG in trouble shooting this problem.

The following new Action Items were assigned during the V2.79X TRG meeting on August 13:

Action Item 120 (8/13/09): Assigned to OPS24. Jerry Dinges will contact Jeff Earl EPM meeting secretariat to put on the next OPS1/EPM conference call Joe Lachez's (NWS WR) suggestion that the question on whether "to have the AOMC clear fail counts and \$ at OT&E sites during OT&E."

Action Item 121 (8/13/09): Assigned to OPS12. Joseph DeVost will add a statement (as an option) to NWS Engineering Mod Note #92 to have "plumbers putty" added to the opening in the bottom of the CL31 to prevent birds or other insects from getting into the CL31 rather than using wire mesh to keep the bird out of the bottom of the CL31.

Action Item 122 (8/13/09): Assigned to the FAA. Jerry Kranz will send John Monte a picture of the cables running up the side of the CL31 of the FAA CL31's to see if the cables for the CL31's on the ASOS are similar to those on the AWOS. John Monte asked

Jery Kranz to find out approximately how many AWOS sites experienced this problem of rodents chewing the cables on the outside of the CL31's.

Action Item 123 (8/13/09): Assigned to OST11. John Monte will coordinate with SFSC personnel the task to examine the TREND page for the 21 OT&E sites during OT&E to help analyze the problems at GEG.

Action Item 124 (8/13/09): Assigned to W/OST 11. John Monte will let Vaisala know they need to make sure the DB-9 connectors (and all connections) on the CL31 are tightened down before they are shipped from the factory.

Action Item 125 (8/13/09): Re-assigned to W/OPS12. W/OPS12 will determine what the standard configuration for the sensors on the ASOS SIO cards should be. W/OPS12 will work with NRC (Mark Russo) to determine this standard sensor configuration on the SIO cards.

Action Item 126 (8/13/09): Assigned to AOMC. Kevin Conaty will perform an analysis of the ASOS trouble tickets generated at the 21 OT&E sites before and during OT&E to help determine if there is a significant increase in AOMC trouble tickets since OT&E began.

Action Item 127 (8/13/09): Assigned to W/OST 11. John Monte will look at the raw CL31 data from the primary and back up CL31 at OKC from August 6-8, 2009 to perform further analysis on this "false cloud" issue from bird either jumping back and forth over the CL31 window or looking into the CL31 window.

Action Item 128 (8/13/09): Assigned to Dan Lester. Dan agreed to send a motion sensitive camera to OKC for them to install on their ASOS near the CL31 to see if they could get visual confirmation of bird activity around the CL31.

Action Item 129 (8/13/09): Assigned to Ron Heatherdale. Ron agreed to send OKC (Jeff Engel) a "whirly-bird" bird deterrent device to install near the CL31 at OKC.

Related to V3.01 ST:

Action Item 103 (7/9/09) OPEN: Assigned to W/OPS24. Khien will complete the 50 (**NOTE: Actual number is 79**) specific test procedures for V3.01 and provide them to SFSC soon. Khien also stated that he would provide SFSC with 20 data sets provided by Chet Schmitt (W/OPS22) to test various break points for the ASOS algorithms in V3.01 using data from real data collected at ASOS sites. **Khien, with technical support from Chet, will teach SFSC personnel how to run the 20 datasets.**

STATUS: Khien Nguyen provided Brian Rice, SFSC SAIC test support, with the last 9 regression test procedures, 42 of 79 (unedited) specific function test procedures, and 20 'real world' data sets on Tuesday, July 21. Khien will be away on leave from July 24 through August 7. Joe Fiore will be the contact point for SFSC regarding the ST in

Khien's absence. Chet Schmitt will be the contact point for questions and problems related to the data sets.

Action Item 104 (7/9/09) OPEN: Assigned to W/OPS24. Joe Fiore will contact the NWS regional focal points, the FAA focal Point, the U.S. Navy focal point, and the USAF focal points for suggested sites for V3.01 ST. Joe Fiore will begin to write the Draft Test Plan for V3.01 OT&E to be completed by September 30, 2009.

STATUS: Initial site selection for V3.01 is underway between W/OPS24 and W/OPS22. Sites that experience bird problems with the IFW sensor and sites that experience large amounts of freezing rain will be included in the list of sites for V3.01 OT&E.

Action Item 110 (7/23/09) OPEN: Assigned to U.S. Navy. Ron Heatherdale (U.S. Navy) will confirm that the U.S. Navy SPAWARSYSCEN ASOS no longer uses the test AOMC to download their ASOS site data.

STATUS: Ron Heatherdale needs to confirm this at the overseas Navy ASOS sites.

Related to OT&E for OID/VDU Thin Client Logistics Replacement:

Action Item 63 (5/21/09) OPEN: Assigned to W/OPS24. Khien Nguyen will contact the US Navy SPAWARSYSCEN in Charleston, SC to make sure that the line driver test (power boost) of the "daisy chained" VDU's has been completed.

STATUS: The U.S. Navy has not yet had a chance to perform this test. Greg Daylai may travel to the SPAWARSYSCEN to help the Navy test this scenario.

The next OT&E TRG meeting will be scheduled for **Thursday, August 20 at 2 pm EDT** to provide a status report on OT&E activities. Please use the following information to dial into the meeting:

Telephone: 1-866-685-1879

Password: 8259362#