

**“CL31 Replacement with ASOS ACU V2.79V and DCP V2.0 EPROM” OT&E Test
Review Group Status Meeting**

June 11 2009

ATTENDEES:

NWS:

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

WFO Caribou, ME
WFO Wilmington, OH
WFO Bismarck, ND
WFO Aberdeen, SD
WFO Phoenix, AZ
WFO Cheyenne, WY
WFO Midland, TX
WFO Amarillo, TX
WFO Norman, OK
WFO Honolulu, HI

NWS Regional Headquarters:

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

National Weather Service Headquarters:

John Monte – W/OST11
Joyce Dickerson – W/OST11
Greg Dalyai – W/OPS12
Joseph Devost – W/OPS12
David Mannarano – W/OPS22
Richard Parry - W/OPS22
Chet Schmitt – W/OPS22
Peggy Hoch – W/OPS23 (ABSENT)
Hak Kim – W/OPS23
Kevin Conaty – AOMC (ABSENT)
Tony Weiss -AOMC
Beth McNulty – W/OS23 (ABSENT)

Laura Cook – W/OS7 (ABSENT)
Fred Hauschildt – W/OPS14
Jennifer Dover – W/OPS22 (ABSENT)
Brian Rice – SAIC SFSC (ABSENT)
Barbara Childs – SAIC SFSC (ABSENT)
Khien Nguyen – W/OPS24
Harry Tran – W/OPS24 (ABSENT)
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 (ABSENT)

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 (ABSENT)

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

DOD - U.S. Air Force:

William (Mac) Lawrence
Ricky Keil (ABSENT)

The fourteenth CL31 ceilometer replacement Operational Test and Evaluation (OT&E) Test Review Group (TRG) status meeting was held by audio conference call on Thursday, June 11 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 June 5th TRG meeting. There were no changes to the minutes. The minutes from the June 5 TRG meeting were ratified, and will be posted on the W/OPS24 website:

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

First, Joe Fiore provided an update on the status of the “switch” spreadsheet. Joe originally said 11 sites have successfully deconfigured the CT12K sensor. Fairbanks, AK (FAI) and Dodge City, KS (DDC) were the latest sites to deconfigure the CT-12K sensor. **UPDATE:** on June 12 Oxnard, CA (OXR) and Camarillo, CA (CMA) successfully deconfigured their CT-12K sensors. As of June 12, 14 sites have successfully deconfigured the 12K sensor. Hilo, HI (ITO) still has not been able to deconfigure their CT-12K sensor without generating a DTS-1 Inoperative message and a DTS-1 sensor response timeout. Joe stated W/OPS23 and W/OST11 are helping ITO with this issue. Burlington, VT (BTV) will remain in dual configuration for a couple of weeks so they can compare the data from the CL31 to the data from the CT-12K if they feel that the CL31 is unrepresentative of conditions. Aberdeen, SD (ABR) has not deconfigured their CT-12K because there was some question as to whether ABR would be a data continuity site for ceilometers if a data continuity study is required for the ceilometers. Until W/OPS24 receives a formal response from OCWWS on whether there is a requirement for the ceilometer data continuity study, ABR will NOT deconfigure its CT-12K.

Since Oxnard, CA (OXR) and Camarillo, CA (CMA) have been successfully operating with the CL31 sensor as the operational ceilometer (and the CT-12K as the test sensor) for about one week, the TRG gave OXR and CMA permission to deconfigure the CT-12K sensor as soon as possible. **UPDATE:** After the TRG meeting Joe called Gary Strickland (WFO ESA) on his cell phone to let him know it was okay to deconfigure the CT-12K sensors at OXR and CMA. Gary said he would deconfigure the CT-12K at OXR and CMA on June 11 or 12. Gary Strickland sent an e-mail to W/OPS24 on June 12th confirming that the CT-12K sensors have been deconfigured for OXR and CMA.

Next, Joe provided an update on the status of the 5 sites participating in phase II OT&E. Joe said there were two sites that did not receive their bird deterrent kits with the CL31 shipment from Sterling Field Support Center, Sterling, VA (SFSC): 1) Columbus, OH (CMH), and 2) Phoenix, AZ (PHX). SFSC sent these bird deterrent kits to PHX and CMH on Wednesday, June 10. PHX confirmed they received the bird deterrent kits from SFSC. Joe stated Phoenix, AZ (PHX) successfully installed the primary CL31, ASOS ACU V2.79V firmware, and V2.0 DCP EPROMS on June 10. The backup CL31 ceilometer at PHX is mounted on the pad, but is not operational because they were missing a fiber optic cable connector. W/OPS24 FedEx'd a fiber optic cable connector to PHX for delivery on Monday, June 15. PHX will power up the back up CL31 at PHX on Monday, June, 15 and report back to National Weather Service Headquarters (WSH) and WFO Oklahoma City, OK (OKC) on the status of the back up CL31. Walt Jameson (PHX) provided detailed comments on the draft NWS Engineering Modification Note (Mod Note) #92 and other aspects of the installation to WSH. Joe also reported the other phase II OT&E (OKC, CMH, ROA, GUY) sites plan to install the CL31, the V2.79V ACU firmware, and V2.0 DCP EPROMS next week. Joe also reported that the Public Notification Statement (PNS) was sent out on June 8 for PHX, and would be sent out for Columbus, OH (CMH) on June 12.

A large amount of discussion followed about the installation of the CL31 on the ASOS OKC. The WFO OKC expressed reservations about doing the installations without some

assurances they would not encounter problems that had been seen at other sites during the OT&E. It was agreed by the TRG WSH personnel will test the installation at SFSC using the OKC ASOS configuration and we would wait to see how the final installation at PHX would go on Monday, June 15. The TRG decided OKC will wait to install their CL31 until they hear from John Monte on the conclusion of testing of various OKC sensor configurations at SFSC, and until after they heard from Phoenix (PHX) on how the configuration of the back up ceilometer went at PHX on June 15.

John Monte presented a status of the ongoing SYSLOG analysis at the CL31 OT&E sites. Overall, most sites continue to exhibit no SYSLOG issues since installing V2.79V. John also reported the ASOS at Hilo, HI (ITO) had serious sensor response time outs from the DTS-1 sensor when the ET deconfigured the CT-12K sensor. John reported W/OST11 and W/OPS23 are in the process of helping ITO solve this problem. **UPDATE:** On June 12, Steve Butler reported he found and fixed the problem at ITO. John reported the ASOS at Spokane, WA (GEG) continues to report chronic sensor response timeouts, and chronic ACU/DCP comms errors. Joe Fiore reported he received an e-mail from the ET at GEG which explained some of the problems at GEG, and what GEG intended to do to fix the problems. John Monte agreed to be the focal point at WSH for this issue, and that he would contact the ET and ESA at GEG to help them solve their problems. John reported that Guadalupe Pass, TX (GDP) had many “modem loopback” errors and thinks they are related to the SIO card “watch item” Test Trouble Report.

Next, Jerry reviewed the “OPEN” Action Items from the June 5th TRG meeting related to the CL31 OT&E project. Then, Jerry reviewed the open Action Items from the June 5th TRG meeting related to the V2.79X/V3.01 ST, and finally Jerry reviewed the open Action Items from the June 5th TRG meeting related to the Thin Client OT&E.

The noteworthy discussions and statements from the June 5th CL31 OT&E TRG meeting included:

Joe Fiore provided an update on the status of the “switch” spreadsheet. Joe reported 11 sites have successfully deconfigured the 12K sensor. Fairbanks, AK (FAI) and Dodge City, KS (DDC) were the latest sites to deconfigure the CT-12K sensor. **UPDATE:** On June 12 Oxnard, CA (OXR), Camarillo, CA (CMA), and Hilo, HI (ITO) successfully deconfigured their CT-12K sensors. Hilo, HI (ITO) was the latest site to deconfigure the CT-12K sensor after the problem with the DTS-1 sensor response timeout was solved. ITO had not been able to deconfigure their CT-12K sensor without generating a DTS-1 inoperative message and a DTS-1 sensor response timeout. Joe stated W/OPS23 and W/OST11 helped ITO with this issue. On June 12, Steve Butler reported he had found and fixed the problem at ITO. The problem turned out to be the AC hot leads for the two sensors were crossed. The DTS-1 module controlled the CT-12K and the CT-12K module controlled the DTS-1. The heater/blower portion of the CT-12K was still controlled by the Ceilometer power control module. As of June 12, 14 sites have successfully deconfigured the CT-12K sensor.

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Burlington, VT (BTV) will remain in dual configuration for a couple of weeks so they can compare the data from the CL31 to the data from the CT-12K if they feel that the CL31 is unrepresentative of conditions. Aberdeen, SD (ABR) has not deconfigured their CT-12K because there was some question as to whether ABR would be a data continuity site for ceilometers. The TRG discussed the requirement for a climate data continuity study for the CL31/CT12K ASOS ceilometers. The issue is if a data continuity study required, would any of the 16 dual configuration OT&E sites be participating in the study? If so, this means that the CT12K should not be deconfigured during the OT&E at the affected sites. Tom Townsend (CRH) raised this issue in respect to ABR. Since they originally had 2 CT12Ks and were wondering if the extra one were required for a climate continuity study. Tom also stated there is an extra ceilometer at the Lexington, KY. In the TRG discussion, Rick Parry (W/OPS22) stated the Office of Climate Weather Water Services (OCWWS) should make this decision. He also stated OCWWS has not selected any sites for a data continuity study. Jerry Dinges (W/OPS24) sent an e-mail to James Zsrojewski. OCWWS Climate Services (OS4) (and cc: Laura Cook (OS7)) asking if there is requirement for the ceilometer data continuity study, and if so, have any sites been selected. Until W/OPS24 receives a formal response from OCWWS, ABR will NOT deconfigure its CT-12K. OCWWS will formally state whether the ASOS Ceilometer is required to go through a climate data continuity study. **UPDATE:** the initial informal response from OCWWS is a data continuity study is NOT required for the ceilometer. W/OPS24 will still wait to give ABR the direction to deconfigure the CT-12K until it receives a formal response from OCWWS.

Since Oxnard, CA (OXR) and Camarillo, CA (CMA) have been successfully operating with the CL31 sensor as the operational ceilometer (and the CT-12K as the test sensor) for about one week, the TRG gave WFO Oxnard permission to deconfigure the CT-12K sensor as soon as possible at OXR and CMA. **UPDATE:** After the TRG meeting Joe called Gary Strickland (WFO ESA) on his cell phone to inform him it was okay to deconfigure the CT-12K sensors at OXR and CMA. Gary said he would deconfigure the CT12K at OXR and CMA on June 11 or 12. Gary Strickland sent an e-mail to W/OPS24 on June 12th confirming that the CT-12K sensors have been deconfigured for OXR and CMA.

Next, Joe provided an update on the status of the 5 sites participating in phase II OT&E. Joe said there were two sites that did not receive their bird deterrent kits with the CL31 shipment from SFSC: 1) Columbus, OH (CMH), and 2) Phoenix, AZ (PHX). SFSC sent these bird deterrent kits to PHX and CMH on Wednesday, June 10. PHX confirmed they received the bird deterrent kits from SFSC.

Joe said PHX successfully installed the primary CL31, V2.79V firmware, and V2.0 DCP EPROMS on Wednesday, June 10. The backup CL31 ceilometer at PHX is mounted on the pad, but is not operational because they were missing a fiber optic cable connector. W/OPS24 FedExed a fiber optic cable connector to PHX for delivery on Monday, June 15. PHX will power up the back up CL31 at PHX on Monday, June, 15 and report back to WSH and WFO Oklahoma City (OKC) on the status of the back up CL31. Walt Jameson provided detailed comments on the draft NWS Engineering Mod Note #92

(CL31 installation) and other aspects of the installation to WSH. Joe also reported the other phase II OT&E (CMH, ROA, GUY) sites plan to install the CL31, the V2.79V ACU firmware, and V2.0 DCP EPROMS next week. Joe also reported the Public Notification Statement (PNS) was sent out on Monday, June 8 for PHX, and would be sent out for Columbus, OH (CMH) on June 12.

Then, a lot of time was spent talking about the Oklahoma City, OK (OKC) phase II OT&E site. Joe stated WFO OKC reported they were going to delay the start of phase II due to concerns about the weather during the afternoon of June 11, and concerns that if they configured the CL31's on the same ports on which the CT12K were configured, they might get a sensor response timeout or an SIO card failure. The concern was raised because the CT12K sensors (which are polled at 2400 baud) are configured on Port 3 and Port 4 of the SIO card; the lower priority ports on the SIO card. This generated a long discussion between WFO OKC (Jeff Engel, Bill Nardi, and Monty Davis), W/OPS11 (John Monte), W/OPS23 (Hak Kim), and W/OPS24 (Joe Fiore). PHX was concerned the CL31's (which are polled at 9600 baud) would not only be on the same SIO card on ports 3 and 4 (the lower priority ports), but both CL31's would also be on the same UART. OKC wanted to know if they should: 1) move the CL31's to separate SIO cards on Port 1 and 2 (the higher priority ports), 2) move the CL31's to the same SIO card on Ports 1 and 2, or 3) follow Mod Note 92, and put the CL31's on the same ports where the CT-12K are located (ports 3 and 4). These questions were raised after Hak Kim (W/OPS23) proposed putting higher baud rate sensors on higher priority ports on SIO cards at last weeks TRG meeting. Hak believes strongly the problem is hardware related and not software related. John Monte stated he was not sure if that would solve the problem (i.e. if it were a hardware issue), or if there was a software error. He stated if the issue turned out to be a software error, it should be fixed. This generated discussion with some of the other sites (PHX) and others. The other sites reported SIO port priority and moving sensors around to reduce sensor response timeouts was done in the past under the guidance of Kevin Conaty at AOMC for previous ASO S firmware loads. The TRG decided this scenario should not be termed either a "problem" and agreed to use the term "Watch Item". This SIO situation is already being tracked as a "Watch Item" TTR. John Monte also took an action to coordinate a test at SFSC and configure the ST0 or ST1 (depending on OKC's configuration) ASOS to the same configuration as OKC to test Hak's theory on SIO port priority. Also, the TRG decided OKC will wait to install their CL31 until they hear from John Monte on the conclusion of testing of various OKC sensor configurations at SFSC, and until after they heard from Phoenix (PHX) on how the configuration of the back up ceilometer went at PHX on June 15. Jerry Dinges stated a priority port assignment scheme was a maintenance action, and that the Maintenance Branch (OPS12) should be involved in a study of SIO port assignment. There was a recommendation from the TRG that a parallel study to the OT&E should be performed, and a follow on study should be performed separate from the OT&E on SIO port priority. The following fourteen sites have successfully deconfigured the CT-12K sensor:

KNBC- Beaufort, SC (U.S. Navy) – 6/1/2009

KGEG- Spokane, WA – 6/3/2009

KJKL – Jackson, KY – 6/1/2009

KGDP – Guadalupe Pass, TX – 5/29/2009

KCAR – Caribou, ME – 5/29/2009

KANJ – Sault Ste. Marie, MI – 6/1/2009

KBIS- Bismarck, ND – 6/1/2009

KCYS – Cheyenne, WY – 5/29/2009

KHIO – Portland, OR – 6/1/2009

KFAI – Fairbanks, AK – 6/8/2009

KDDC – Dodge City, KS – 6/9/2009

KOKR – Oxnard, CA – 6/12/2009

KCMA - Camarillo, CA – 6/12/2009

KITO – Hilo, HI – 6/12/09

The following sites have not yet deconfigured the CT-12K sensor:

KABR – Aberdeen, SD – Update: ABR is waiting for a formal response from OCWWS on whether a ceilometer data continuity study is required.

KBTV- Burlington, VT - will remain in dual configuration mode for a couple of more weeks to compare CL31 to CT-12K

The following list provides a status on the 5 phase II OT&E sites:

PHX – Phoenix, AZ – (back up site) installed primary CL31 on 6/10/09 will install back up CL31 on 6/15/09 and let OKC know when the installation of the back up CL31 is successfully completed

OKC – Oklahoma City, OK - (back up site) will wait to install CL31's until OKC give the word that they successfully installed the back up CL31, and will wait until testing of OKC set up is complete at SFSC.

CMH – Columbus, OH – (meteorological discontinuity site) CL31 installation planned for 6/16/09

ROA – Roanoke, VA – (back up site) CL31 installation planned for 6/17/09

GUY – Guymon, OK – (SCA site) CL31 installation planned for 6/16/09

John Monte reported on the status of the SYSLOG analysis at the OT&E sites being performed by the staff at the SFSC, Sterling, VA. John referred to the latest spreadsheet (6/9/09) that summarizes SYSLOG error messages seen to date at the OT&E sites. Overall, most sites continue to exhibit no SYSLOG issues since installing V2.79V. John reported the ASOS at Spokane, WA (GEG) continues to have chronic ACU/DCP comms errors, and CL31 sensor response timeouts. Joe Fiore reported he received an e-mail from the ET at GEG, that explained some of the problems at GEG, and what GEG intended to do to fix the problems. John Monte agreed to be the focal point at NWS headquarters for this issue, and he would contact the ET and ESA at GEG to help them solve their problems. John reported Guadalupe Pass, TX (GDP) had many “modem loopback” errors that he believes are related to the SIO card “watch item” TTR.

Next, Jerry reviewed the OPEN Action Items from the June 11 TRG meeting.

Also, Jerry stated V2.79X would be installed at the CL31 OT&E sites or a subset of CL31 OT&E sites after successful completion of CL31 V2.79V OT&E. W/OPS24, W/OPS22, W/OST11, and W/OPS12 will determine which CL31 OT&E sites receive V2.79X in conjunction with receiving the IFW V4.54 sensor firmware.

Then, Khien Nguyen (W/OPS24) provided an update on the status of V3.01 ST. Khien has completed a draft of the V3.01 System Test (ST) Plan. The test plan will be reviewed internally by W/OPS24, signed by W/OPS24, and sent out to the ST sites, the NWS regional focal points, the U.S. Navy focal point, the U.S. Air Force focal point, and NWS HQ for review. Chet Schmitt (W/OPS22) stated many data sets and scenarios have been run for V3.01 on the ASOS at WSH. Chet reported that testing is going well, especially for the ice Free Wind (IFW) Quality Assurance (QA) logic algorithm. Chet reported there were two TTR’s written against V3.01 so far.

Finally, Greg Dalyai (W/OPS12) and Joe provide an update on the test readiness for the OID/VDU Thin Client (AXEL) Logistics Replacement OT&E. The reconfiguration of the 50 VDU thin clients to OID thin clients that were sent back to the thin client vendor is close to being completed. Once all 50 OID thin clients are reconfigured, the vendor will ship the 50 OID thin clients back to NSLC. Greg Dalyai (W/OPS12) agreed to let Joe Fiore (W/OPS24) know when the 50 OID thin clients are in stock at NLSC, and when the thin client spares (one for each WFO participating in OT&E, including thin clients, monitors, and keyboards (if they are receiving an OID) are available.

Once W/OPS24 hears from W/OPS12 the required pre-requisites thin clients in stock at NLSC, and spares in stock at each WFO participating in OT&E), a Thin Client “kick-off” Test Readiness Review (TRR) meeting will be held prior to the start of OT&E.

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

- a. Action Items 7 (11/17/08), 8 (03/09/09), 11 (3/12/09), 12 (03/19/09), 17 (3/19/09), 35 (4/16/09), 43 (5/7/09), and 55 (5/14/09) remain OPEN (No change until Phase II OT&E). **NO CHANGE**
- b. Action Items 6 (11/17/08), 52 (5/14/09), 68 (5/28/09), 70 (6/5/09), 71 (6/5/09), 72 (6/5/09), and 74 were **CLOSED**.
- c. Action Items 54 (5/14/09), 62 (5/21/09), 63 (5/21/09), 64 (5/21/09), 69 (6/5/09), and 73 (6/5/09) remain **OPEN**.

The specifics for each action item follow:

Related to CL31 OT&E:

Action Item 6 (11/17/09) – CLOSED: Assigned to ESA’s to inventory all items they receive from NLSC and WSH. The ESA’s will inventory all items received (CL31 ceilometer) CL31 hardware kits, V2.0 DCP EPROMS, V2.79V software (and documents obtained from the OPS12 website), and let the OT&E Test Director (Joe Fiore) know by e-mail (or phone) if the inventory list is complete. **COMPLETE**

Action Item 7 (11/17/09) - OPEN: Assigned to ESA’s. The ESA’s (NOTE: exception is Dan Lester for NWS Central Region) will notify the OT&E Test Director (Joe Fiore) by e-mail when they are ready to install the CL31 ceilometer, V2.0 DCP EPROMS (for sites that use EPROMS), and ASOS V2.79V ACU Software. They will also notify the OT&E test director when installation of all required material is complete.

STATUS: This action will remain OPEN until all 21 OT&E sites have the CL31 ceilometer installed along with the ASOS ACU V2.79V firmware and DCP V2.0 EPROMS.

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 OT&E.

Action Item 11 (03/12/09) – OPEN: Assigned to W/OPS24. Joe Fiore will provide the TRG a status update at each status meeting on the CL31 ceilometer and ASOS ACU V2.79V and DCP V2.0 EPROM installation until all 22 sites have completed this activity.

STATUS: This action will remain OPEN until all 21 OT&E sites have completed their installations.

Action Item 12 (03/19/09) – OPEN: Assigned to W/OST11. John Monte will query EMRS to obtain the serial numbers for the CL31 installed at the 22 OT&E sites. He will e-mail the appropriate contact if the information is not found in EMRS.

STATUS: This activity is ongoing, and will be complete once all 21 OT&E sites have provided the CL31 Serial number in EMRS or by e-mail to John Monte. W/OST11 will access ERMS to complete this task once the last site has installed the CL31 sensor, V2.79V ACU Firmware, and V2.0 DCP EPROMS (where applicable).

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. Joe Devost and Fred Hauschildt will provide the disposal plan for the CT12K.

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 late June.**

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.

Action Item 43 (5/7/09) OPEN: Assigned to W/OPS12. Joe Devost and Greg Dalyai will coordinate with the field 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 NWS HQ IT to help resolve this issue.**

Action Item 55 (5/14/09) OPEN: Assigned to the NWS Alaska Region Headquarters and OST11. The NWS Alaska Region Headquarters will coordinate (with OST 11 help) moving the CL31 ceilometers from the test bed in Fairbanks, AK, to a test bed in Barrow, AK. This will allow further testing of the CL31 ice crystal study, because, climatologically. Barrow has 10 times more occurrences of ice crystals than any other site in the U.S.

STATUS: On June 16, Don Bolton clarified Fairbanks will only be sending one CL31 to Barrow, and the ET's are only installing one of the CL31's at Barrow on the second DCP. This site is already a Data Continuity Site and has (2) CT12K's on separate DCP's. This needs to be completed before the long winter sets in at Barrow. **This Action Item will remain open until completion later in the summer of 2009.**

Action Item 52 (05/14/09) CLOSED: Assigned to U.S. Navy SPAWARSYSCEN, Charleston, SC. Ron Heatherdale will ensure the proper U.S. Navy liaison with NCDC is notified to contact NCDC about the switch to the CL31 May 8 for the ASOS at Beaufort, SC. **COMPLETE**

STATUS: Ron Heatherdale contacted the NCDC focal point and obtained the NWS form to be sent to NCDC. Ron will contact KNBC to determine which form they will use (NWS or Navy version).

Action Item 69 (6/5//09) OPEN: Assigned to W/OP23, W/OPS24, and W/OST11 will continue to monitor the problem of chronic sensor response timeouts at ITO and GEG, and try to help ITO and GEG solve the problem with sensor response timeouts. John Monte and Hak Kim will meet Monday, June 8th to discuss options for both sites.

STATUS: John Monte and Hak Kim will continue to work with Steve Butler (ITO) to help solve the issues at ITO. John Monte will contact Paul Kozsan, Dwight Williams, Mike Henry) GEG to help them with their ACU/DCP radio comms problems and SIO errors. The ITO part of this Action Item has been closed. The GEG part of this Action Item will remain open until the issues at GEG are resolved.

Action Item 70 (6/5/09) CLOSED: Assigned to W/OPS24. Joe Fiore will send an e-mail to BTV asking them to let W/OPS24 know that; if they see another event in which they feel that the CL31 is unrepresentative of conditions; they should let W/OPS24 know about the event as soon as possible, so W/OPS24 can download the 12-hour archive and 5 MIN for analysis by running the data through the MCE spreadsheet for both the CL31 and the CT12K ceilometers. **COMPLETE**

Action Item 71 (6/5//09) CLOSED: Assigned to W/OPS24. W/OPS24 will send an e-mail to the 5 Phase II OT&E sites, to authorize them to move to Phase II using draft NWS Engineering Mod Note 92 and Mod Note 80 as soon as possible. **COMPLETE**

Action Item 72 (6/5//09) CLOSED: Assigned to W/OPS24. W/OPS24 will e-mail Ron Heatherdale the name of the NCDC focal point so KNBC can contact the right person, and find out what forms need to be sent. **COMPLETE**

STATUS: Ron will contact KNBC to determine which form they will use (NWS or Navy version).

The following new action items were assigned during the June 11 TRG meeting:

Action Item 75 (6/11/09) CLOSED: Assigned to W/OST11 and SFSC. W/OST11 will have SFSC configure the ASOS's at SFSC (ST0 or ST1 depending on PHX configuration) to the same configuration as PHX, so they can perform various tests related to the SIO card "watch item" TTR. This work was completed on June 12 at SFSC. **COMPLETED**

Action Item 76 (6/11/09): Assigned to OCWWS (W/OS4). OCWWS will formally state whether the ASOS Ceilometer is required to go through a climate data continuity study.

Action Item 77 (6/11/09): Assigned to W/OST11. John Monte will be the focal point at NWS headquarters for the issues at Spokane, WA (GEG), and he will contact the ET and ESA at GEG to help them solve their problems.

Action Item 78 (6/11/09): Assigned to W/OST11. John Monte will send Columbus, OH (CMH) a missing mounting bolt kit for one of the CL31's.

Action Item 79 (6/11/09): 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.

Related to V2.79X/V3.01 ST:

Action Item 54 (5/14/09) OPEN: Assigned to OPS24. Khien Nguyen will write the V3.01 System Test (ST) Plan, and coordinate ST at SFSC, WSH, US. NAVY SPAWARSYSCEN, and possibly a USAF site in Hurlbert Field, FL. This includes organizing resources to perform the ST test, assuring that data sets to test the IFW QC logic algorithm and other V3.01 changes are run and that the ST schedule is written in the test plan and provided to each site participating in ST.

STATUS: A Draft Test Plan for V3.01 ST is in internal review at W/OPS24. Once Jerry Dinges signs off on the test plan, it will be sent out to the ST sites, NWS headquarters, and the NWS regional focal points for review.

Action Item 62 (5/21/09) CLOSED: Assigned to Walt Jameson and Son Nguyen. Walt, with help from NWS Western Region Headquarters (Son Nguyen), will use the

information he has gathered on this problem to generate an OTR and send it to Gary Alessi (W/OPS22) for inclusion in the ASOS OTR database. **COMPLETED**

STATUS: OTR 1098 was submitted by Western Region (Walt Jameson and Son Nguyen) to W/OPS22 (Gary Alessi) for inclusion in the OTR database on June 15.

The following new action item was assigned for the June 11^h TRG meeting.

Action Item 79 (6/11/09): W/OPS24, W/OPS22, W/OST11, and W/OPS12 will determine which CL31 OT&E sites receive V2.79X in conjunction with receiving the IFW V4.54 sensor firmware after successful completion of CL31 V2.79V OT&E.

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.

Action Item 64 (5/21/09) OPEN: Assigned to W/OPS12. OPS12 will track the status of the reprogramming of the configuration files for the 50 OID thin clients between the Thin Client vendor and NLSC. This will remain open until the pre-requisites for OT&E are complete.

STATUS: The reconfiguration of the 50 VDU thin clients to OID thin clients that were sent back to the thin client vendor has been completed. The vendor will ship the 50 OID thin clients back to NSLC this week. After all VDU thin clients (72), OID thin clients (50), and one spare for each site to be stored at corresponding WFO for each OT&E site, OT&E can commence.

Action Item 68 (5/28/09) CLOSED. Assigned to W/OPS12. Another prerequisite for OT&E is the delivery of the thin client spares (one spare for each WFO participating in OT&E) to each WFO participating in OT&E. W/OPS12 will track this action item. This Action item will be tracked as part of Action Item 64

Action Item 73 (6/5/09) OPEN: Assigned to W/OPS24. At the FAA request, Joe Fiore will ask the ETs at each OT&E site to send a notice to the Air Traffic Control Tower (ATCT), and the Contract Weather observer (CWO) 1-week in advance of the plan to install the thin client VDU’s and/or OID’s.

Action Item 74 (6/5/09) CLOSED: Assigned to W/OPS24. Joe Fiore will contact NWS CRH ASOS focal point, to confirm they understand that ORD requirement is to validate the FAA FTI communication link to an OID. ORDs inclusion in the OT&E does not mean all VDU/OIDs at the site will be replaced by the AXEL thin client. **COMPLETE**

No new action items were assigned during the June 11 TRG meeting.

The next OT&E TRG meeting will be scheduled for Thursday, June 18 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#