

## ASOS OT&E TRG Meeting

February 16, 2012

### Attendees

<b>NWS Headquarters, Silver Spring, MD:</b>	<b>U.S. Navy</b>
Joe Fiore OPS24	
Peggy Hoch OPS23	
Hak Kim OPS23	
Toni Remy OPS23	
Chet Schmitt OPS22	<b>U.S. Air Force</b>
Jennifer Dover OPS22 SFSC	
Khien Nguyen OPS24	
Thomas Renegar OPS12	
Greg Dalyai OPS12	<b>NCAR</b>
Joe Devost OPS12	
Mickey Renegar OPS12	
Sergio Marsh OS7	
<b>NWS Regions and WFOs</b>	<b>FAA</b>
Jim Durr Alaska Region	Bing Huang
Bob Brashears Central Region	Jerry Kranz
Dan Lester Central Region	
Robert Weaver Central Region	
John Compo Eastern Region	
Bruce Cromell Eastern Region	
Dave Eckberg Eastern Region	
Mike Esip Eastern Region	
Matt Ferrell Eastern Region	
Kevin Murray Eastern Region	
Tim Rutkowski Eastern Region	
James Vesallico Eastern Region	
John Bush Pacific Region	
David Meek Pacific Region	
Scott Birch Western Region	
Adam Mathis Western Region	
Son Nguyen Western Region	

On Thursday, February 16, 2012 the National Weather Service Test & Evaluation Branch (OPS24) and Software Branch (OPS23) hosted the ASOS V3.05 OT&E TRG Meeting.

The purpose of the meeting was to discuss the status of the ASOS Software V3.051 (1<sup>st</sup> debug load) Limited OT&E, the V3.05 OT&E data analysis results, and the ASOS Software V3.06 ST and OT&E.

## **DISCUSSIONS:**

### **Status – Limited V3.051 OT&E**

Joe Fiore led the meeting and began by giving the status of the V3.051 Limited OT&E debug load.

As of February 16, none of the three Limited OT&E sites running the ASOS V3.051 debug load have reported any “Missing Pressure” message. All Phase 1 sites should install V3.051, including the 5 sites that had reverted to V2.79Y when the pressure data missing problem appeared. Several sites have already installed the software including TAN and WAL.

### **V3.05 OT&E Data Analysis Summary**

Joe Fiore stated that 5 cases of ice accretion/freezing rain events have been captured and the algorithm appears to be working as designed, although a few more cases for analyses are desired. The sky condition in IFR, IFWQC, and VCTS SPECI are all working as designed. There have been no cases collected yet for the “false tip” algorithm; this condition may be difficult to verify without using ASENSE. All of the improvements and OTR fixes have been verified. After Phase 1 OT&E is complete, the interim data analysis and summary will be sent out to the group.

### **V3.06 ST**

Joe Fiore reported that 6 of 19 test procedures have been successfully completed at SFSC with an expected completion date of March 2. Jerry Kranz will be on site at SFSC February 21-22 to test the FTI related fix (RC 12510). Bing Huang reported that the FAA union briefing will be conducted by Jerry Kranz next week and then, if all goes well, training will begin. Bing requested that Joe Fiore review the spreadsheet of Phase 2 and 2a sites and report on any changes. V3.06 OT&E Phase 2 would continue until enough meteorological events have been captured (per an ACCB/APMC decision) to successfully verify the algorithms.

V3.06 consists of the following software modifications:

- TTR 294 – Extraneous Zero’s in AUDLOG
- TTR 295 – Pressure Data Missing and Pressure Sensor Response Timeouts
- TTR296 – “T” Group not Included in the SPECI Report
- TTR 297 – TEC Ability to Remotely Clear Pressure Sensor DQ Errors or Pressure Sensor Response Timeouts and Restore Pressure

- TTR 307 – Cabinet Temp Missing in 10-sec Pressure Archive After Report Processing Turned On
- RC – 12510- Reduce Warm Starts by FTI Comms (TTR 207)

### **Field/Regional Questions & Discussions**

ANJ is having warm start issues and cabinet temperature issues. Hak Kim stated that the FTI fix won't help solve asynchronous communications problems, only the synchronous connection used by FTI. A TTR has been opened for this issue by Joe Fiore. Hak also explained that if the cabinet temperature falls below 35 degrees, then the pressure sensor data will go missing and will not be restored until the temperature rises above 38 degrees. Sterling reported that they are seeing this problem at about midnight and the data goes out for about one minute. Greg Dalyai stated he will investigate the thresholds for the cabinet temperature range to see if it needs to be adjusted. Joe Devost will contact NRC and the vendor to find the correct temperature range. It is possible the temperature sensor at ANJ could be broken; this should be investigated further. Dan Lester has 3 SCAs and suggested that a ceramic heater might help, but is not officially approved for use. Another possible solution that was suggested is to use aluminum foil/bubble wrap. This TTR is being considered as a watch item for now.

The tentative dates for the next password change for the V3.05/V3.051 OT&E sites are listed below:

Eastern – March 1  
Alaska – March 6  
Southern – March 13  
Central – March 20  
Western – March 22

The regions have been consulted about these dates and they have not indicated that there is a problem with those dates. Mickey Renegar asked if he should change the passwords on the latest two V3.051 OT&E sites (Taunton and Wallops Island). Joe Fiore indicated he would check with Aaron Poyer to see if they had been changed. They were not changed, so Mickey Renegar changed the passwords at TAN and WAL on 2/17/12.

The Software Branch is investigating the sensor response problem with the freezing rain sensor and will report at the next TRG or sooner, if the problem is found.

The next ASOS V3.05 TRG meeting is scheduled for Thursday, March 1, 2:00-3:30 pm (EST), SSMC-2 Room 4246. The conference call dial in number is 1-877-690-0813; participant pass code – 8521699#.