



**Automated Surface Observing System (ASOS)
Acquisition control Unit (ACU) v3.05 System Test
Review Group Meeting Minutes**

**Thursday
Feb 3, 2011**

Attendees

- OPS22: Chet Schmitt, Rich Parry, Jen Dover
- OPS23: Peggy Hoch, Hak Kim, Rich Thomas
- OPS24: Bert Vioria, Khien Nguyen, Aaron Poyer
- OPS12: Joe Devost
- Cyber Data: Dan Brewer
- PR: John Bush
- ER: Kevin Murray
- NWSTC: Bob Retzlaff

1. Discussions:

On Thursday, February 3, 2011, the National Weather Service Test & Evaluation Branch (OPS24) hosted the Automated Surface observing System (ASOS) Acquisition control Unit (ACU) V3.05 System Test (ST) Review Group Meeting. The purpose of the meeting was to discuss the status of the ST and the Test Trouble Reports (TTRs) found so far.

- The progress to date at SFSC and WSH is summarized in the below table:

As of Feb 3, 2011	Regression tests	Functional Tests	Data Sets
Total Planned	99	97	8
Completed	48	53	2
Complete Percentage	48%	55%	25%
Failed Procedures	4	0	0

- NWSTC has installed the test software on their systems.

- NAVSYSCEN has not installed the test software.

- The FAA Test Group (FAA AJW-14A, Oklahoma City) has received the test software to check out the WSP interface.

- The FAA test Group at the FAA Technical Center, Atlantic, NJ, will conduct the ADAS/ALDARS test with SFSC in a few weeks.

- Three old TTRs were discussed and adjudicated by the TRG as follow:

TTR256: Hard to see display on some ThinClient Display units at SFSC, suggest changing the color of the reverse video background – Impact 4, Priority 6 – Recommended for retesting with the official AXEL model AX300 75C ThinClient .

Update: OPS24 and OPS22 personnel obtained and tested the official AXEL model AX300 75C ThinClient on 01/26/11 at SFSC and found no problem - **CLOSED**.

TTR264: ACU SOLA UPS causing continuous TEST mode on OID – The TRG noted that this could be due to a RS232 Comms problem – The TRG recommended the Comms problem be investigated – Assigned to Jen Dover (OPS22).

Update: Jen Dover has ordered a new RS232 interface board for the SOLA UPS and a new SIO card for the ACU to trouble shoot the Comms problem – **OPEN**

TTR265: Unexpected result for present weather code – When the observer entered “SQ+SN – FZRA” the result was coded as “+FZRASN SQ”. Rick Parry(OPS22) believes this result is correctly implemented in accordance to FMH-1 instructions. If there is no objection by other TRG members then this TTR will be closed and the Test Procedure will be updated to reflect the change (from –FZRASN SQ” to “+FZRASN SQ”) - Rick Parry recommended additional time for review. The TRG concurs and this TTR is still **OPEN**.

- Two new TTRs found during the last two weeks were discussed and adjudicated as follows:

TTR267: ST0 at SFSC has been reporting multiple CL31 sensor response timeouts on all DCP. There were also bad weather and radio transmission errors at the times.

Update: The TRG recommended trouble shooting the radio Comms problem first and continue monitoring the sensor response timeouts. However, SFSC currently does not have a technician to perform this task. Chet Schmitt will request Joe Facundo for hardware support. Bob Retzaff said the RF link is operating at 2400 baud rate which is possibly a bottle neck for the data streams from the various sensors. Kevin Murray asked what if the problem get worst with more sensors configured. Chet said he will bring up this issue at the next ACM meeting – **OPEN**

TTR268: On ST0 at SFSC, the ACU/DCP Comms on the Maintenance Page shows untested (*). However, if the ACU/DCP Comms field is selected, it shows all 3 DCPs having one radio in pass (P) status, while the other radio is in the untested (*).

Update: Bob Retzlaff said it has been a known software bug since the beginning of ASOS, and it is covered in the F100 Manual, Page 2.5.3.4.1. The TRG agreed to close this TTR - **CLOSED**.

2. Old Action Items

- a. Khien to develop a detailed test schedule (in Progress)
- b. Khien to keep track of the TTRs statuses (i. e. those to be sent to the ACCB, those need Test Procedures updates, those need retest) (In Progress).

3. New Action Items

- a. Khien Nguyen to provide the Freezing Rain Enable/Disable Test Procedure to Bob Retzlaff and Chris Stark – Khien has provided the Test Procedure on 02/03/2011 – **CLOSED**

b. Chet Schmitt to discuss with Joe Facundo (OPS22) to discuss hardware support for ASOS testing.