

## **ASOS CHECKLIST for verifying V2.79T fixes during the second CL31 ST:**

**NOTE:** This checklist procedure assumes that V2.79D/W/E is installed and the system is stable before the start of testing. CT12K sensor is defined as the operational sensor in V2.79D/W/E and the DCP UPS is configured.

### **V2.79T: CT12K as Primary “Operational” Sensor(C1), CL31 as Test Sensor(L1)**

1. Following Mod Note 80, install ASOS ACU software version V2.79T and DCP V2.0 EPROMS on ASOS ST0. (Make sure to remove the battery jumper, and wait at least two minutes before replacing the battery jumper on the memory board to initialize a clean download from the ACU).
2. The CT12K sensor should be the operational sensor. Sign on as TEC. Press REVUE-SITE-CONFIG-DEFIN page and make sure that the CT12K is defined as the ceilometer. If not, press CHANG key and SEQN to define CT12K as the ceilometer. Press EXIT when done.
3. Press REVUE SITE CONFIG SENSR. If C1 is not configured enter C1 for CT12K as Primary “operational” ceilometer on corresponding SIO Board Port Number where CT12K is installed. Enter “L1” for CL31 as the Test Sensor on corresponding SIO Board Port Number where CL31 is configured. Hit EXIT to confirm changes.
4. Make sure report processing is “ON” for all sensors.
5. Make sure all fail counts are cleared on MAINT page and MAINT pages has “P” status for all components: ACU, DCP, ACU/DCP COMMS, and ACU & DCP processors are running.
6. Perform REVUE-SENSR-12HR to ensure no missing sensor data on any of the sensor pages.
7. The Test sensor (CL31) data is displayed on the REVUE SENSR 12-HR TEST PAGE. The algorithm output for the SKY condition will appear in brackets [ ]
8. Check SYSLOG for any error messages.
9. After all sensor data are displayed on the 1-minute screen (including the SKY field - after approximately 30 minutes), generate SPECI or wait for 5-minute observation to make sure that “\$” sign is not present.

10. Allow 13 hrs for system stability test. NOTE: The 13 hour stability test must run through midnight.

**V2.79T: CL31 as Primary “Operational” Sensor (L1), CT12K as Test Sensor (C1)**

1. The CL31 sensor should be the operational sensor. Sign on as TEC. Press REVUE-SITE-CONFIG-DEFIN page, press CHANG key and SEQN to define CL31 as the ceilometer. Press EXIT when done.
2. Make sure report processing is “ON” for all sensors.
3. Make sure all fail counts are cleared on MAINT page and MAINT pages has “P” status for all components: ACU, DCP, ACU/DCP COMMS, ACU & DCP processors are running, and on the all sensor pages.
4. Perform REVUE-SENSR-12HR to ensure no missing sensor data on any of the sensor pages.
5. The Test sensor (CT12K) data is displayed on the REVUE SENSR TEST PAGE page. The algorithm output for the SKY condition will appear in brackets [ ]
6. Check SYSLOG for any error messages.
7. After all sensor data are displayed on the 1-minute screen (including the SKY field - after approximately 30 minutes), generate SPECI or wait for 5-minute observation to make sure that “\$” sign is not present.
8. Allow 13 hrs for system stability test. NOTE: The 13 hour stability test must run through midnight.

**V2.79T: CL31 Primary “Operational” Sensor (L1), No Test Sensor**

1. The CL31 sensor should be the operational sensor. Sign on as TEC. Press REVUE-SITE-CONFIG-DEFIN page and make sure that the CL31 is defined as the ceilometer. If not, press CHANG key and SEQN to define CL31 as the ceilometer. Press EXIT when done.
2. Deconfigure the CT12K Test Sensor. Press REVUE SITE CONFIG SENSR; enter “\*\*” (in place of C1) on corresponding SIO Board Port Number where the CT12K is configured. Hit EXIT to confirm changes.
3. Make sure report processing is “ON” for all sensors.

4. Make sure all fail counts are cleared on MAINT page and MAINT pages has “P” status for all components: ACU, DCP, ACU/DCP COMMS, and ACU & DCP processors are running.
5. Perform REVUE-SENSR-12HR to ensure no missing sensor data on any of the sensor pages.
6. Check SYSLOG for any error messages.
7. The Ceilometer “Test” sensor page will be displayed with just UTC times without any data. Press REVUE SENSR 12-HR TEST to verify there is no data on the “Test” ceilometer page. Press EXIT. Generate SPECI or wait for 5-minute observation to make sure that “\$” sign is not present.
8. Allow 13 hrs for system stability test. NOTE: The 13 hour stability test must run through midnight.

### **V2.79T: CT12K Primary “Operational” Sensor (C1), No Test Sensor**

1. The CT12K sensor should be the operational sensor. Sign on as TEC. Press REVUE-SITE-CONFIG-DEFIN page and make sure that the CT12K is defined as the ceilometer. If not, press CHANG key and SEQN to define CT12K as the ceilometer. Press EXIT when done.
2. Reconfigure the CT12K Sensor as “Operational” sensor, deconfigure the CL31 sensor. Press REVUE SITE CONFIG SENSR; enter “C1” (in place of “\*\*”) on corresponding SIO Board Port Number where CT12K was configured. Enter “\*\*” (in place of L1) on the corresponding SIO Board Port Number where CL31 was configured. Hit EXIT to confirm changes.
3. Make sure report processing is “ON” for all sensors.
4. Make sure all fail counts are cleared on MAINT page and MAINT pages has “P” status for all components: ACU, DCP, ACU/DCP COMMS, ACU & DCP processors are running, and on all of the sensor pages.
5. Perform REVUE-SENSR-12HR to ensure no missing sensor data on any of the sensor pages.
6. Check SYSLOG for any error messages.
7. The Ceilometer “Test” sensor page will be displayed with just UTC times without any data. Press REVUE SENSR 12-HR TEST to verify there is no data on the “Test” ceilometer page. Press EXIT to exit. Generate SPECI or wait for 5-minute observation to make sure that “\$” sign is not present

8. Reconfigure CT12K as “Operational” sensor and CL31 as “Test” sensor. Perform a HARD RESET on both ACU and DCP to verify ASOS is still working properly
9. Allow 13 hrs for system stability test. NOTE: The 13 hour stability test must run through midnight.