



1. Call the AOMC at 1-800-242-8194. Inform the person who answers the phone at which office you will be deactivating the fan fail circuit. Confirm that AOMC will provide access to the site-specific data base.
2. For commissioned sites, get approval of the responsible MIC/OIC before starting deactivation. For non-commissioned sites, the el tech must coordinate with the site MIC/OIC before starting deactivation. You may deactivate on any day of the month if permission is granted and the restrictions in steps 3 and 4 are complied with.
3. **Commissioned Sites Only:** Do **not** start deactivation during bad weather, precipitation, instrument flight rule (IFR) conditions, or if any of those conditions is expected within 3 hours. These meteorological conditions will be defined by the responsible MIC/OIC.
4. Do not start deactivation at a time that will conflict with scheduled synoptic observations at 00, 03, 06, 09, 12, 15, 18, and 21Z. Although about 45 minutes should be sufficient, allow 1 hour to complete deactivation and restart ASOS.
5. Immediately before beginning work at NWS staffed sites, the MIC/OIC/ observer will inform the tower and any other critical users the hygrometer will be shut off (at unstaffed sites, the el tech will inform tower). He/She will alert towers using Controller Video Displays (CVD) and Operator Interface Devices (OID) to log off and shut down display power to avoid confusion. At commissioned sites only, download the following data to laptop using the direct command mode: 5-minute data (12 hrs.), SYSLOG information (24 hrs.), SHEF messages (24 hrs.), and any 2-hour archive files.
6. Do not begin the deactivation process, i.e., halt ASOS, until immediately after an hourly observation has been transmitted. At NWS-staffed sites, normal backup observing procedures will be implemented.

## PROCEDURE

1. Follow normal procedures for ASOS maintenance and powering down the hygrometer.
2. Turn power to the hygrometer off at the DCP.
3. Remove the dew point sensor from the aspirator.
4. Using diagonal wire cutters, cut the two black wires and one white wire as shown in Figure 1. Cut the wires off flush with the board. For reference, these are the wires that connect to the junction and either end of the two fan fail temperature sensors.
5. Fold the cut wires back and secure to the aspirator cable using a tie wrap or tie cord.
6. Stagger the three wires to offset the ends from one another, so they cannot contact each other.
7. Further secure the three wires to the cable, if necessary, to ensure that the ends of the wires do not contact any surfaces including the inside of the aspirator.

8. Using water from the hygrothermometer cleaning kit and an acid brush, gently but thoroughly clean any corrosion products from the card in the area of the fan fail temperature elements and the ambient temperature RTD. This is the area between the thermoelectric cooler fins and the ambient temperature RTD. After the water cleaning, use alcohol and clean the area again. Examine the area and be sure that all corrosion and dirt have been removed. Repeat if necessary.
9. Use an indelible marker to mark the card with a "B" as shown in Figure 1.
10. Reinstall the dew point sensor into the aspirator.
11. Turn the fan fail potentiometer fully counterclockwise.
12. Turn power to the hygrothermometer on at the DCP.
13. Perform the temperature and dew point calibrations in accordance with the Site Technical Manual. Do not perform the fan fail adjustments.
14. Mark out the **fan fail adjustment** instructions located on the inside of the transmitter door.
15. Perform other routine maintenance as required by local procedures.
16. Return the ASOS to operational configuration using normal procedures.

Note: Perform this modification to the spare sensor in the spare parts kit.

17. Make the appropriate SYSLOG entries (MAINT-ACT-FMK).

Make appropriate entries in the SYSLOG using the Maintenance Action keys, Field Modification keys, and comment fields. Follow these steps:

1. Log on as TECH.
2. Key the MAINT screen.
3. Key the ACTION page.
4. Key the Start Key.
5. Exit, complete modification installation.
6. Log on as TECH once modification has been completed.
7. Key the MAINT screen.
8. Key the ACTION page.
9. Key FMK. Enter the Modification Note number as follows: MOD 17. On the second line of the screen verify that only MOD 17 is displayed. Complete by entering Y in the Y/N if only MOD 17 is displayed.
10. Check the SYSLOG and verify the FM message. Notify the AOMC via telephone that MOD 17 is complete.

## REPORTING MODIFICATION

**This modification is critical and should be implemented as soon as possible.** Target date for completing this modification is 20 days after receipt of this note. Report completed modification

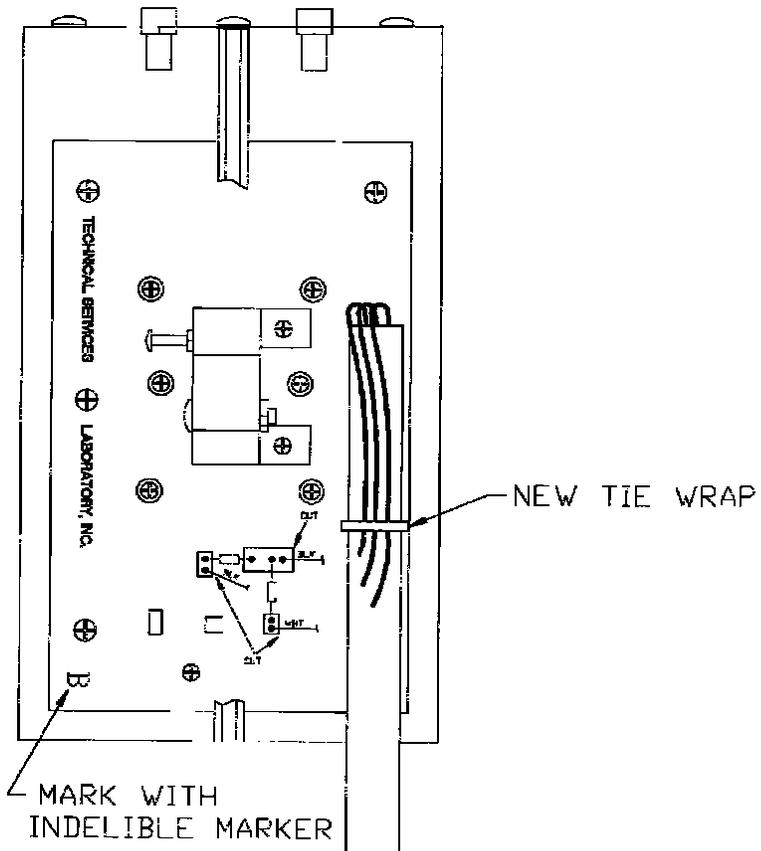
on WS Form H-28, Engineering Progress Report, for each system according to instructions in EHB-4, part 2, using reporting code ASOS.

J. Michael St. Clair  
Chief, Engineering Division

Attachment

W/OSO321:MGChristopher:713-1845:4/26/94:rev.5/2/94  
WP51 Files: AMOD17.H11, EHB-11b disk, Spellcheck sol 5/2/94

DEW POINT SENSOR ASSY  
(MIRROR/CABLE SIDE)



EHB11  
MODIFICATION NOTE 17

FIGURE 1.