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CIMEL Weekly Operating Procedure

I. Purpose:

Describes the procedure to perform the CIMEL weekly rounds. The CIMEL consists of an instrument, a power box, a control box and a GOES antenna. The instrument has a double barrel lens assembly that rotates up and down and periodically scans the sky. The Power box contains one large Vitel battery and 2 small CIMEL batteries. The Control Box contains a white CIMEL Electronique unit and a black Vitel VX4004 unit.

II. Cautions and Hazards:

None.

III. Requirements:

None

IV. Procedure:

A. Steps:

1. Verify or set the GMT time clock in the E-Van and take it to the CIMEL pad.
2. Look over the CIMEL, the boxes and the antenna. Are cables connected securely and not tangled? YES/NO.
3. Is the double barrel lens pointing toward the sun?
4. Check the light on the bulls eye. Is the light lined up with the bulls eye? YES/NO.
5. If the double barrel lens is pointing towards the sun, check the moisture sensor by wetting it. Did the double barrel point down after wetting the moisture sensor? YES/NO.
 - Power Box
 - a) Open the Power box. Check the battery connections and then close and latch the box. Are the battery connections securely fastened and is the ox free of standing water? YES/NO.
 - Control Box
 - b) Open the Control Box.

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- c) Check the CIMEL clock by pressing the GREEN, then RED(View), then WHITE(Bat) buttons.
 - d) The time will be displayed. Is the time within 10 seconds of the GMT? YES/NO.
6. Read the time displayed.
 7. After reading the time, press ON/OFF, then "Scroll" to "Activate" and press SELECT.
 8. The time will be displayed. Is the time between GMT and 5 seconds before GMT? YES/NO.
 9. Check the CIMEL internal battery by pressing GREEN, then RED(VIEW), and then WHITE(Bat).
 10. Read the voltage and then press GREEN. Is the battery voltage reading between Ba 5.0 and Ba 5.7 volts? YES/NO.
 11. Check the Vitel battery by pressing ON/OFF; the display will read "Time."
 12. Then press SCROLL several times until "Sensor" is displayed.
 13. Then press SELECT and "Bat" will display.
 14. Then press SELECT again and read the battery voltage.
 15. Then press ON/Off twice. Is the battery voltage greater than 12.5 volts? YES/NO.
 16. Close and latch the box.

V. References:

None.

VI. Attachments:

None