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2NFOV Daily Preventative Maintenance Procedure at AMF Site

I. Purpose:

This procedure outlines daily preventative maintenance on the 2-Channel Narrow Field of View Zenith Radiometer (2NFOV) at AMF site.

II. Cautions and Hazards:

None.

III. Requirements:

- Distilled water
- Kimwipes
- Battelle MFRSR head level

IV. Procedure:

A. Daily Preventative Maintenance

1. Visually inspect the instrument for damage. Ensure the PVC window sun shield is securely in place. Ensure that the detector housing insulation is securely in place. Ensure the stand is secure and vertical.
2. Visually inspect the fiberglass electronics enclosure for damage. Ensure that all connections to enclosure are tight.
3. Inspect all cables and grounding connections for tightness. Check for any signs of rodents chewing on cables or other damage.
4. Loosen the 4-40 screws and remove the PVC sun shield. Observe the glass window and record the condition prior to cleaning window in SDL. Check for any physical damage to window.
5. Clean the window by squirting with distilled water only and gently dry with Kim Wipe towel. Record the time of window cleaning.
6. Check for moisture or condensation on the inside of the glass window.
7. With the PVC sun shield removed, use a Battelle MFRSR head level and place it on top of the NFOV over the window. Record the position of the level bubble in relation to the inner circle.
8. If the level bubble is not centered within the inner circle the instrument must be re-leveled. Loosen the locking screws and adjust the level using

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the 3 leveling thumbscrews. Tighten the locking screws just snug keeping the head level.

9. If the instrument required a level adjustment, record the time adjustment was made.
10. When complete, replace the PVC sun shield and hand tighten the 4-40 screws securing the shield. Do not use a tool to tighten the screws as the threads can be easily stripped.

V. References:

1. Quick Setup of 2NFOV Instrument, MAN(2NFOV)-001.

VI. Attachments:

None.