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PSP/PIR Daily Operating Procedure for AMF

I. Purpose:

This document describes the required daily care and maintenance of Eppley PSP and PIR radiometers at the ARM Mobile Facility (AMF) site.

II. Cautions and Hazards:

- Use extreme care when cleaning the domes. Excessive force scratches the domes and alters the calibration.
- Never touch the domes of the instrument with bare fingers.

III. Requirements:

- Lint-free soft cloth or Kimwipe
- Distilled water
- Compressed air (canned)

IV. Procedure:

A. Steps:

1. Check dome for scratches, cracks, or breaks. If none, go to step 2; if damaged, enter this fact in the site operations log and report the problem to on-site technician.
 - **Caution:** Use extreme care when cleaning the domes; excessive force scratches the domes and alters calibrations.
2. Wipe outer dome with a clean, lint-free, soft cloth; one or two wipes suffices. (If this worked, go to step 4.)
 - **Note:** If one or two wipes cannot remove all debris from the dome, use distilled water as a cleaning agent. (Refer to step 3 below.)
3. Dampen a fresh cloth with distilled water to almost its dripping point and gently wash away any debris on the dome; then use a dry lint-free cloth to remove any excess water from the dome.
4. Check desiccant. If the desiccant is orange/brown, go to the next step; if the desiccant is blue/green, see *PSP/PIR, PRO(PSP)-008*.
 - **Note:** The desiccant is located on the side of the ventilator and is viewed through a small viewing hole about 1 cm in diameter.

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5. Enter the date: start-time, end-time, comments of the daily maintenance in the Site Data Log. Was a desiccant change performed?

V. References:

1. "Instrumentation for the Measurement of the Components of Solar and Terrestrial Radiation," Eppley vendor manual.
2. "Manual Translation of Eppley, NIP, PSP, PSP and Ventilator" translated by S. Sandberg.
3. "Solar and Infrared Observation Station (SIROS) System Manual": drafted by S. Sandberg.

VI. Attachments:

None.