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PSP Fan Motor Replacement Procedure

I. Purpose:

This procedure explains the steps for replacing a PSP fan motor assembly located on the two up-looking (downwelling) radiometers.

II. Cautions and Hazards:

- Exercise Caution: Ventilators run on 12VDC. Disconnect power before attempting procedure.
- This procedure requires two people. One person is responsible for holding the radiometer while the other person switches out the ventilator.

III. Requirements:

- Small tray or cup to hold screws.
- Foam cushion (from shipping box).
- Two technicians.
- New fan motor.
- Allen wrench.
- Assembly replacement form.

IV. Procedure:

A. Steps:

1. Disconnect power to the PSP ventilator.
2. Remove PSP mounting screws which hold radiometer on stand.
3. Lean unit with cable connection down and use foam cushion to protect sensor head cover from hitting or bumping radiometer stand.

NOTE: Do not lean unit on connectors or crimp the cables. Lay the PSP gently down on its side. Radiometers are expensive. The tech holding the radiometer should not attempt to help with any of part of the procedures.

4. Remove outer mesh from bottom of radiometer.
5. With the radiometer on its side, remove the four (4) Allen screws attached to the ventilator fan; keep all four (4) screws and lock washers in the small tray.

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6. Disconnect the power connection from the ventilator.
7. Remove fan and replace with new one.
8. Reconnect wires and Allen screws.
NOTE: The ventilator fan is made of plastic. Excessive tightening of the Allen screws shatters the plastic.
9. Reattach the outer mesh to bottom of ventilator.
10. Set the instrument upright and tighten down the instrument.
11. Check the level on the instrument. If the instrument is level, proceed to step 12. If the instrument is not level, follow PSP Leveling Procedure **PRO(PSP)-001**. then proceed to step 12.
12. After leveling is complete and instrument ventilator fan is replaced, return power to the ventilator.
13. Record date, starting-time, ending-time, comments, and fill out assembly replacement form.

V. References:

1. Mike Rubes, Chris Cornwall, and Scott Smith at SNL March 2, 1995.

VI. Attachments:

None.