Microwave Radiometer Blower Fan Diagnostics

I. Purpose:

This document describes the required local diagnostic procedures performed when the blower fan is not running or the mirror is not turning.

II. Cautions and Hazards:

- Use care when working around blower assembly.
- There are two power supplies for the MWR assembly:

  UPS 110V/60hZ/130W to MWR and Blower
  Non-UPS 110V/50-60Hz/750W to heater

III. Requirements:

- Continuity tester or ohmmeter.
- Spare fuse (2-amp, "slow-blow.")

IV. Procedure:

A. Steps:

1. Check that the main MWR power switch is ON.
2. Check the fuse (next to the power switch) with a continuity tester. It should read 0 ohms. If fuse is bad, unscrew it from its holder next to the ON/OFF switch; then replace it with new fuse.

   Note: Do not shutdown the computer; shutdown only the MWR during this check.
3. Check that the power cables are securely connected.
4. Check that power is available at the source: check circuit breaker, UPS.
5. If all of these checks prove OK, but the MWR does not operate, then schedule a service call.
6. Fill out the date, start-time, end-time, and comments in the site data log.

V. References:

1. "Instrument Operation and Maintenance Procedure Development Checklist," by Jim Liljegren.

VI. Attachments:

None.