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Site General

- Assess dust collection/damage to instrument domes, lenses, mirrors, and Teflon windows.

Inside AMF-A1 Van

Stand-Alone Instrument – Atmospheric Emitted Radiance Interferometer (AERI)

#	Question	Yes	No
1.	Inside the ventilation closet remove and check the air filter. Is it clean?		
2.	Press the hatch control button (except when closed during rain). Does the hatch move momentarily and then reopen?		
3.	Is the hatch free of dust and debris? If NO, clean it with compressed air.		
4.	Replace pleated-paper inlet filters. Was this completed successfully?		
5.	Is the mirror free of dust and debris? If NO, clean it with camera brush and compressed air.		

Stand-Alone Instrument – Aerosol Observation System (AOS)

#	Question	Yes	No
1.	Go to the PSAP Box. Change PSAP reference filter (right position in filter holder). Was this completed successfully?		
2.	Reset the PSAP filter transmittance (Tr) to 1.000. Was this completed successfully?		
3.	Perform Nephelometer span check. Was this completed successfully?		
4.	Service the 1-micron and 10-micron impactors. Was this completed successfully?		
5.	Go to the CCN Instrument, remove the instrument cover, and check the color of desiccant in drier cartridge. Does the desiccant in the cartridge show any blue color above the line at the bottom? If NO, change desiccant cartridge.		
6.	Place the zero filter on the AOS sampling port fitting. Note: The particle concentration is reported on the front panel of the CN counter. Was the zero check completed successfully?		

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Back of AMF-A2 Van

Stand-Alone Instrument – Ceilometer

#	Question	Yes	No
1.	Remove outer casing and check the fan for dust buildup. Is it free of dust? If NO, clean it with compressed air.		
2.	Clean the window with a soft cloth and rainwater. Is it now clean?		

Inside AMF-A2 Van

Stand-Alone Instrument – W-band ARM Cloud Radar (WACR)

See MAN(WACR)-001

#	Question	Yes	No
1.	Check the chiller fluid level. Is it visible? If NO, top it off with distilled water.		
2.	Check the chiller air filter. Is it free of dust, debris, or any other objects? If NO (i.e., clogged), replace it with a new filter.		
3.	Check coolant level. Is it full? If NO, top it off.		

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Instrument Field – ECOR Tower

Stand-Alone Instrument – Eddy Correlation Flux Measurement System (ECOR)

#	Question	Yes	No
1.	Inspect the ECOR tower for structural problems such as loose nuts and bolts, cracks, and loose ground mounting fasteners. Is it free of structural problems?		
2.	Inspect all the conduits for damage. Are all the conduits free of damages?		
3.	Inspect the sonic sensor acoustic transducers for dirt and debris. Are they free of dirt and debris?		
4.	Check the verticality of the sonic sensor using a level. Is it vertical within 1 degree?		
5.	Inspect the LI-7500 sensor head for dirt and debris. Is it free of dirt and debris?		
6.	Check the position of the LI-7500 sensor head. Is it on the west side of the sonic sensor, tilted to the north, and the top of the sensor is at the same height as the middle of the sensing volume of the sonic?		
7.	Inspect the LI-7500 control unit for dirt, debris, and moisture intrusion. Is it free of dirt, debris, and moisture?		
8.	Inspect the cool cell enclosure for debris and damage. Is it free of dirt and other damages?		
9.	Check the temperature setting for the cool cell ventilation fan. Is it set for 90 degrees F?		
10.	Check the temperature setting for the cool cell heater. Is it set for 50 degrees F?		
11	Check cable connections on the back side of the PCI unit. Are all the connections tight and secure?		
12.	Inspect the PCI unit power LED and COMMS/RX LED. Is the power LED on and the COMMS/RX LED blinking?		