

RAWS ANNUAL MAINTENANCE CHECKLIST FOR AXIOM F6/G6, H2 DCP

Before you go

- Review WFMI observations and messages for any possible issues. Record station information.
Station Name: _____ Date of Maintenance: _____
NESDIS ID: _____
Transmit Time: _____
Transmit Channel: _____
Antenna Elevation and Azimuth: _____
- Download latest application software from <https://ftsinc.com/support/software-updates/> to a thumb drive.
- Gather material to refresh fuel bed, including herbicide for weeds.

General Inspection

- Walk around station and check for:
 - Damage to box, solar panel, sensors, cables (including grounding wires) and tower.
 - Tower orientation, level, and mast plumb (**tri-leg towers only**).
 - Correct antenna elevation and azimuth.

Data

- Insert thumb drive and start a visit report.
- Record currently installed software versions. Application: _____ Operating System: _____
- Update Application software and firmware (if needed).
- Verify satellite transmit information (NESDIS ID, TX Time, Channel, Message Centering box checked)

- Record current readings of all sensors.
RH: _____ Air Temp: _____ Fuel Moisture: _____ Fuel Temp.: _____ Tipping Bucket: _____
Wind Direction: _____ Wind Speed: _____ Solar Radiation: _____ Battery Voltage: _____

Sensor Replacement

- Record asset numbers of old and new sensors on RAWS Maintenance form (see reverse)
- Replace required sensors and/or battery(ies), securing cables neatly with zip ties.
- Compare readings from old sensors with readings from new sensors.

Sensor Validation

- Tipping bucket: Perform 10 tip test and optional “pour through” test. Reset rain to previous value.
- Scan WD and check quadrants at 0°, 90°, 180°, and 270° (Values should be within 5°).
- Scan WS by spinning prop or cups at slow and fast speeds. Verify value change.
- Verify solar radiation by covering sensor and forcing scan. Reading should be close to zero.
- Verify all SDI sensors have been mapped through SDI icon.
- For portables only: Verify radio transmission.

Before Leaving Station

- Clean solar panel (plain water and soft cloth).
- Pick up trash (old zip ties, etc.).
- Refresh fuel bed.
- End visit report and remove thumb drive.
- Raise the mast (tri-leg towers only) and secure the site. Lock the box with M-1 lock(s).

Back at the Office

- Complete Post Trip Update in WFMI: Verify and check boxes of assets installed, change last annual maintenance date, reset tipping bucket zero date (January 1 of next year), operating system version, and application software version.
- Check Messages for successful transmission with no missing data or errors.

RAWS MAINTENANCE FORM

| SENSOR NAME | OLD ASSET NUMBER | NEW ASSET NUMBER |
|-------------|------------------|------------------|
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RETURN OLD ASSETS TO THE RAWS DEPOT AS SOON AS POSSIBLE. IF THEY ARE NOT RETURNED IN A TIMELY MANNER, NO ONE ELSE IN NCFS CAN GET PARTS UNTIL THEY ARE RETURNED.