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.
  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.
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<thead>
<tr>
<th>SENSOR NAME</th>
<th>OLD ASSET NUMBER</th>
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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.